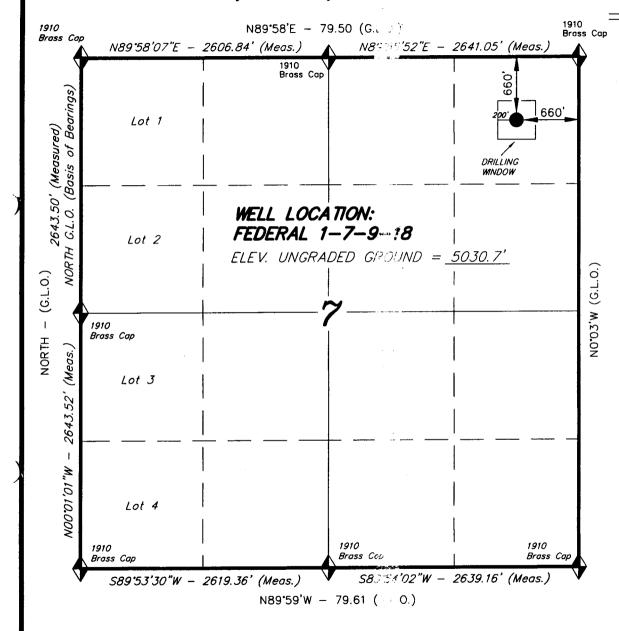
RECEIVED

JAN 2 7 2004

Form 3160-3 (September 2001)	DIV. OF OIL	., GAS & N	OMB No. 100	4-0136	
			Expires January	31, 2004	
			5. Lease Serial No. U-16540		
	Approx. 2559' whether DF, KDB, RT, GL, etc.) 31' GL 20 Gas Well				
APPLICATION FOR PERMIT TO DE	UNITED STATES. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT PLICATION FOR PERMIT TO DRILL OR REENTER DRILL				
			N/A		
1a. Type of Work: DRILL REENTER	· ·		7. If Unit or CA Agreeme		
lb. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other	8. Lease Name and Well I Federal 1-7-9-18	No.			
2. Name of Operator	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER Vork: DI DRILL Gas Well Other Single Zone Multiple 2 Deparator Education Company Box 3630, Myton UT 84052 (435) 646-3721 ENE/NE 660' FNL 660' FEL 4433 743 Y 40, 05087 Ed prod. zone 591391 X -109, 92859 miles and direction from nearest town or post office* matley 18.8 miles southeast of Myton, Utah om proposed* nearest lease line, it ine, if any) Approx. 660' flse, NA flunt arest drig, unit line, if any) Approx. 2559' (Show whether DF, KDB, RT, GL, etc.) 5031' GL 24. Attachments ompleted in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached tiffed by a registered surveyor. an. se Plan (if the location is on National Forest System Lands, the be filed with the appropriate Forest Service Office). Name (Printed/Typed) BRADLEY G. H ENVIRONMENTAL SCIEN Name (Printed/Typed) BRADLEY G. H		9. API Well No.		
	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER Work: Drill Drill Gas Well Other Single Zone Multiple Z Operator Doduction Company B BOX 3630, Myton UT 84052 (435) 646-3721 of Well (Report location clearly and in accordance with any State requirements.*) e NE/NE 660' FNL 660' FEL 4433 743 Y 40, 05087 sed prod. zone 591391 X -109, 92859 miles and direction from nearest town or post office* matley 18.8 miles southeast of Myton, Utah rom proposed* nearest release fine, ft. arest drig, unit line, if any) Approx. 660' filse, NA flunt om proposed location* vell, drilling, completed, on this lease, ft. Approx. 2559' s (Show whether DF, KDB, RT, GL, etc.) 5031' GL 22. Approximate date work will start* 27 and Quarter 2004 24. Attachments completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached. See Plan (if the location is on National Forest System Lands, the be filed with the appropriate Forest Service Office). Warne (Printed/Typed) Mandie Crozier Name (Printed/Typed) BRADLEY G. HI ENVIRONMENTAL SCIEN		43.047-	35447	
3a. Address	UNITED STATES. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER of Work: DOI Well OGAS Well Other Single Zone Multiple of Operator Production Company ass Jo. Phone No. (include area code) (435) 646-3721 face NE/NE 660' FNL 660' FEL 4433 743 Y 40, 05087 possed prod. zone 591391 X -109, 92859 as in miles and direction from nearest town or post office* oximatley 18.8 miles southeast of Myton, Utah ce from proposed location* as well, drilling, completed, for, on this lease, ft. Approx. 2559' for nearest drig. unit line, if any) Approx 660' files, NA funit 1356.44 for no marked in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attact certified by a registered surveyor. The Plan (if the location is on National Forest System Lands, the Intern 20 above). Approxal file with the appropriate Forest Service Office). PRADLEY G. ENVIRONMENTAL SCII Name (Printed/Typed) BRADLEY G. ENVIRONMENTAL SCII Propoval, if any, are attached. C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and less, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.			oratory	
			Elght Mile Flat	.:	
4. Location of Well (Report location clearly and in accordance with	any State requirements.*)		11. Sec., T., R., M., or Blk.	and Survey or Area	
At surface NE/NE 660' FNL 660' FEL 4433 74	34 40,05087		e de la companya de l); .a = =	
At proposed prod. zone 591391	× -109,92859		NE/NE Sec. 7, TS	9S R18E	
14. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State	
Approximatley 18.8 miles southeast of Myton, Utah			Uintah	UT	
15. Distance from proposed* location to nearest property or lease line, ft.		17. Spacin	g Unit dedicated to this well		
	1	·	40 Acres		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 2559'			31A Bond No. on file		
21 Flavations (Show whather DE VDD BT CI ata)					
	1 77	ırt*	23. Estimated duration		
0001 01			Approximately seven (7) days from s	pud to rig release.	
The Call					
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No.1, shall be att	tached to this	form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 	Lands, the Item 20 above). 5. Operator certific 6. Such other site	ation. specific info			
25. Signature	Name (Printed/Typed)		! Date		
Title Regulatory Specialist provides	Mandie Crozier			126/04	
Approved by Signarday		HILL	Dat		
Title	ENVIRONMENTAL SC	IENTIST !	Ш		
Application approval does not warrant or certify the the applicant holds le operations thereon. Conditions of approval, if any, are attached.	gal or equitable title to those rights in	the subject l	ease which would entitle the	applicant to conduct	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it States any false, fictitious or fraudulent statements or representations as to	a crime for any person knowingly an any matter within its jurisdiction.	d willfully to	o make to any department or	agency of the United	
*(Instructions on reverse)				*	

T9S, R18E, S.L.B.&M.

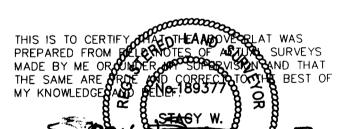


= SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)

INLAND PRODUCTION COMPANY

WELL LOCATION, FEDERAL 1-7-9-18, LOCATED AS SHOWN IN THE NE 1/4 NE 1/4 OF SECTION 7, T9S, R18E, S.L.B.&M. UINTAH COUNTY, UTAH.



TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501

SCALE: 1" = 1000'	SURVEYED BY: G.S.
DATE: 10-9-03	DRAWN BY: J.R.S.
NOTES:	FILE #



January 26, 2004

State of Utah
Division of Oil, Gas & Mining
Attn: Diana Whitney
1594 West North Temple - Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RECEIVED

JAN 2 7 2004

DIV. OF OIL, GAS & MINING

RE: Applications for Permit to Drill: Federal (1-7-9-18) 3-7-9-18, 5-7-9-18, 7-7-9-18, 11-7-9-18, and 13-7-9-18.

Dear Diana:

Enclosed find APD's on the above referenced wells. If you have any questions, feel free to give either Brad or myself a call.

Sincerely,

Mandie Crozier

Regulatory Specialist

mc

enclosures

INLAND PRODUCTION COMPANY FEDERAL #1-7-9-18 NE/NE SECTION 7, T9S, R18E UINTAH COUNTY, UTAH

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. <u>GEOLOGIC SURFACE FORMATION:</u>

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta 0' – 1640' Green River 1640' Wasatch 5910'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Green River Formation 1640' - 6500' - Oil

4. PROPOSED CASING PROGRAM

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

5. <u>MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:</u>

Please refer to the Monument Butte Field SOP. See Exhibit "C".

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

7. <u>AUXILIARY SAFETY EQUIPMENT TO BE USED:</u>

Please refer to the Monument Butte Field SOP.

8. <u>TESTING, LOGGING AND CORING PROGRAMS:</u>

Please refer to the Monument Butte Field SOP.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated maximum bottom hole pressure is 2000 psi. It is not anticipated that abnormal temperatures will be encountered.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

INLAND PRODUCTION COMPANY FEDERAL #1-7-9-18 NE/NE SECTION 7, T9S, R18E UINTAH COUNTY, UTAH

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. <u>EXISTING ROADS</u>

See attached Topographic Map "A"

To reach Inland Production Company well location site Federal #1-7-9-18 located in the NE 1/4 NE 1/4 Section 7, T9S, R18E, Uintah County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles \pm to the junction of this highway and UT State Hwy 53; proceed southeasterly along Hwy 53 - 11.7 miles \pm to it's junction with an existing road to the southeast; proceed southeasterly - 3.6 miles \pm to it's junction with an existing road to the east; proceed northeasterly - 1.2 miles \pm to it's junction with an existing road to the northeast; proceed northeasterly - 0.7 miles \pm to it's junction with the beginning of the proposed access road; proceed northwesterly along the proposed access road 880' \pm to the proposed well location.

2. PLANNED ACCESS ROAD

See Topographic Map "B" for the location of the proposed access road.

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

5. <u>LOCATION AND TYPE OF WATER SUPPLY</u>

Please refer to the Monument Butte Field SOP. See Exhibit "A".

6. SOURCE OF CONSTRUCTION MATERIALS

Please refer to the Monument Butte Field SOP.

7. <u>METHODS FOR HANDLING WASTE DISPOSAL</u>

Please refer to the Monument Butte Field SOP.

8. ANCILLARY FACILITIES

Please refer to the Monument Butte Field SOP.

9. WELL SITE LAYOUT

See attached Location Layout Diagram.

10. PLANS FOR RESTORATION OF SURFACE

Please refer to the Monument Butte Field SOP.

11. SURFACE OWNERSHIP - Bureau Of Land Management

12. OTHER ADDITIONAL INFORMATION

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #03-213, 1/20/04. Paleontological Resource Survey prepared by, Wade E. Miller, 11/21/03. See attached report cover pages, Exhibit "D".

Inland Production Company requests a 60' ROW for the Federal #1-7-9-18 to allow for construction of a 6" gas gathering line, and a 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. Refer to Topographic Map "C." For a ROW plan of development, please refer to the Monument Butte Field SOP.

Inland Production Company also requests a 60' ROW be granted for the Federal #1-7-9-18 to allow for construction of a 3" steel water injection line and a 3" poly water return line. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

Water Disposal

Please refer to the Monument Butte Field SOP.

Reserve Pit Liner

Please refer to the Monument Butte Field SOP.

Location and Reserve Pit Reclamation

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Shadscale Atriplex confertifolia 4 lbs/acre
Gardners Saltbush Atriplex corrugata 4 lbs/acre
Galleta Grass Hilaria jamesii 4 lbs/acre

Details of the On-Site Inspection

The proposed Federal #1-7-9-18 was on-sited on 8/21/03. The following were present; Brad Mecham (Inland Production), Byron Tolman (Bureau of Land Management), and a SWCA representative. Weather conditions were clear.

13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

Representative

Name: Brad Mecham

Address: Route #3 Box 3630

Myton, UT 84052

Telephone:

(435) 646-3721

Certification

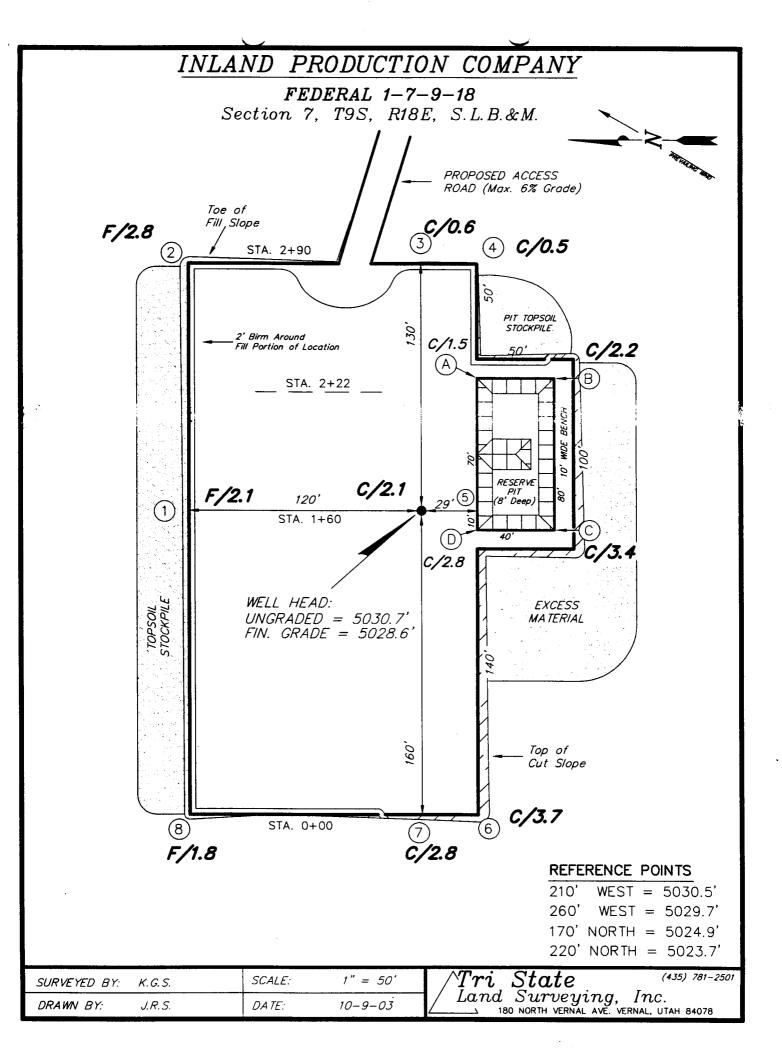
Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of well #1-7-9-18 NE/NE Section 7, Township 9S, Range 18E: Lease U-16540 Uintah County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Inland Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Date

Mandie Crozier

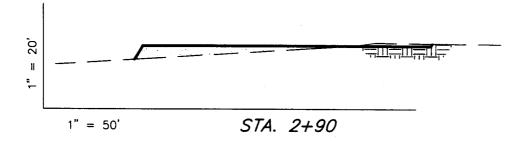
Regulatory Specialist

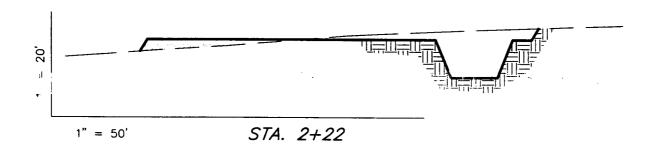


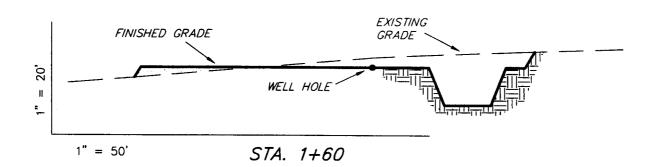
INLAND PRODUCTION COMPANY

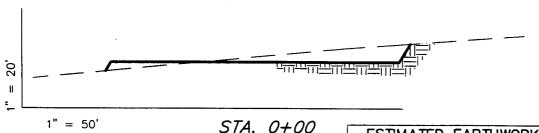
CROSS SECTIONS

FEDERAL 1-7-9-18









NOTE: UNLESS OTHERWISE NOTED ALL CUT/FILL SLOPES ARE AT 1.5:1 ESTIMATED EARTHWORK QUANTITIES
(No Shrink or swell adjustments have been used)

(Expressed in Cubic Yards)

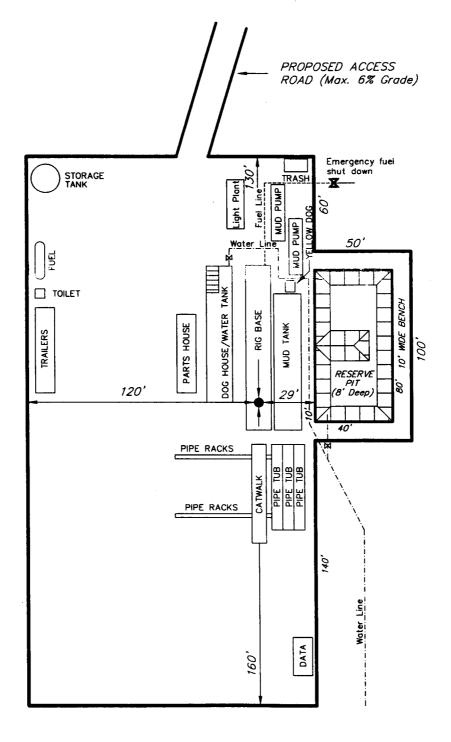
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	1,320	1,320	Topsoil is not included	0
PIT	640	0	in Pad Cut	640
TOTALS	1,960	1,320	890	640

SURVEYED BY:	K.G.S.	SCALE:	1" = 50'
DRAWN BY:	J.R.S.	DATE:	10-9-03

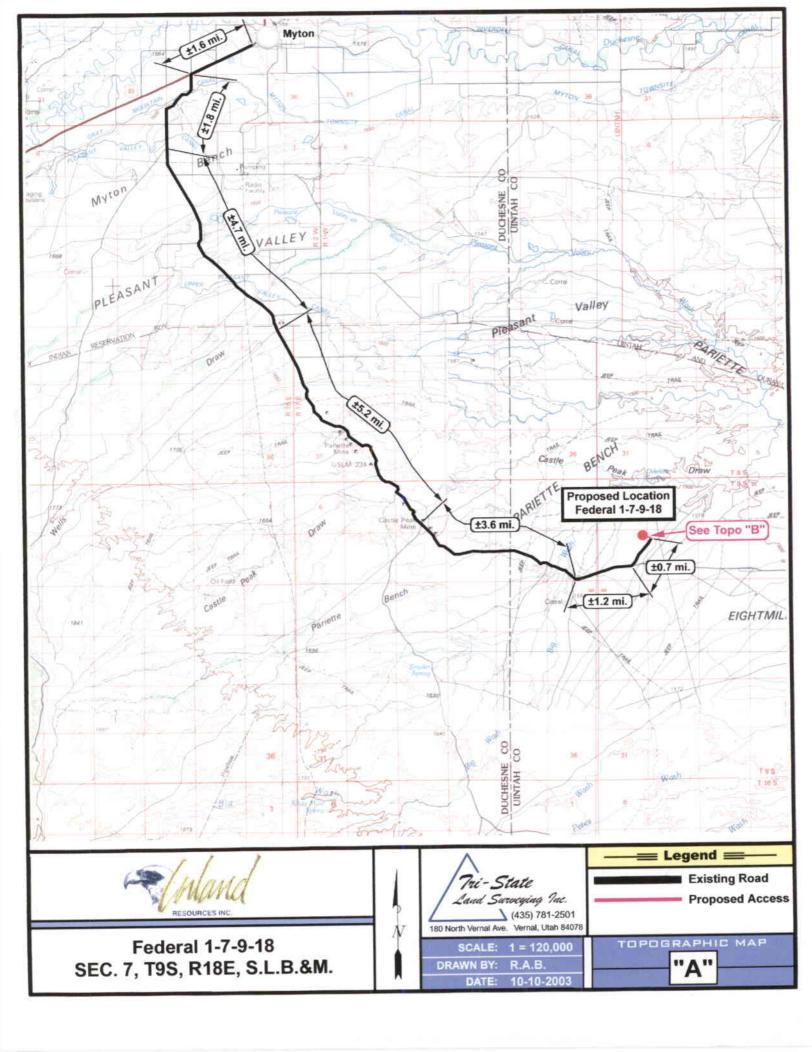
/Tri State (435) 781-2501
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

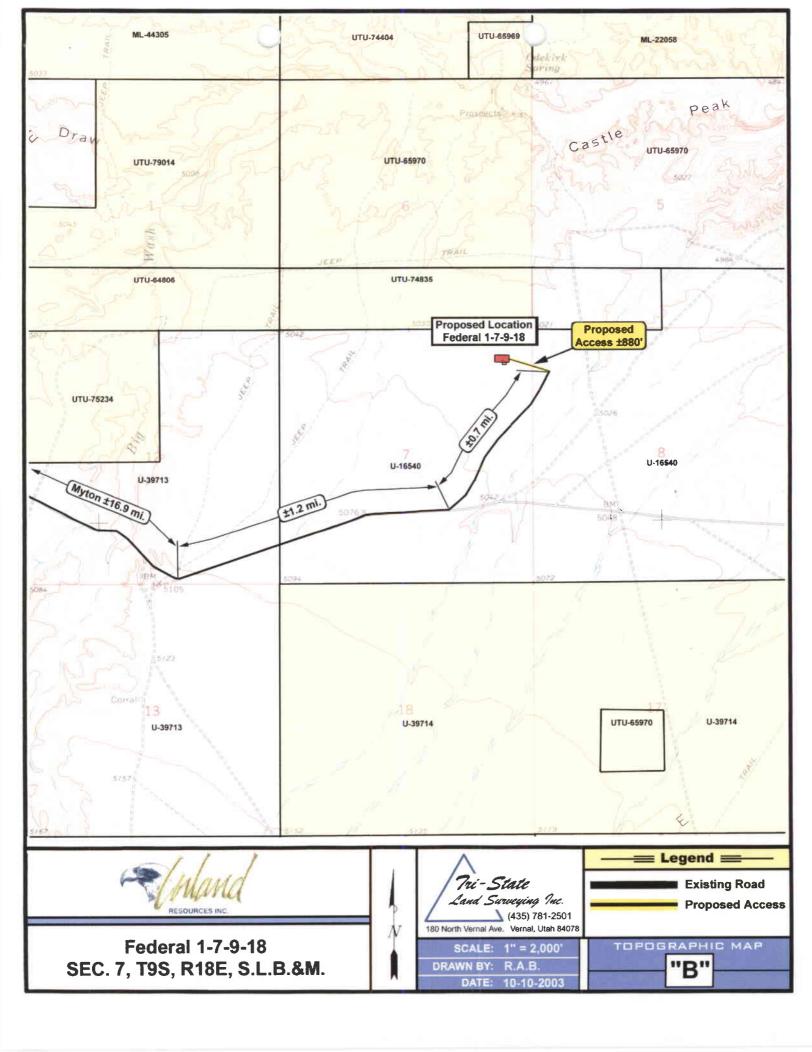
INLAND PRODUCTION COMPANY

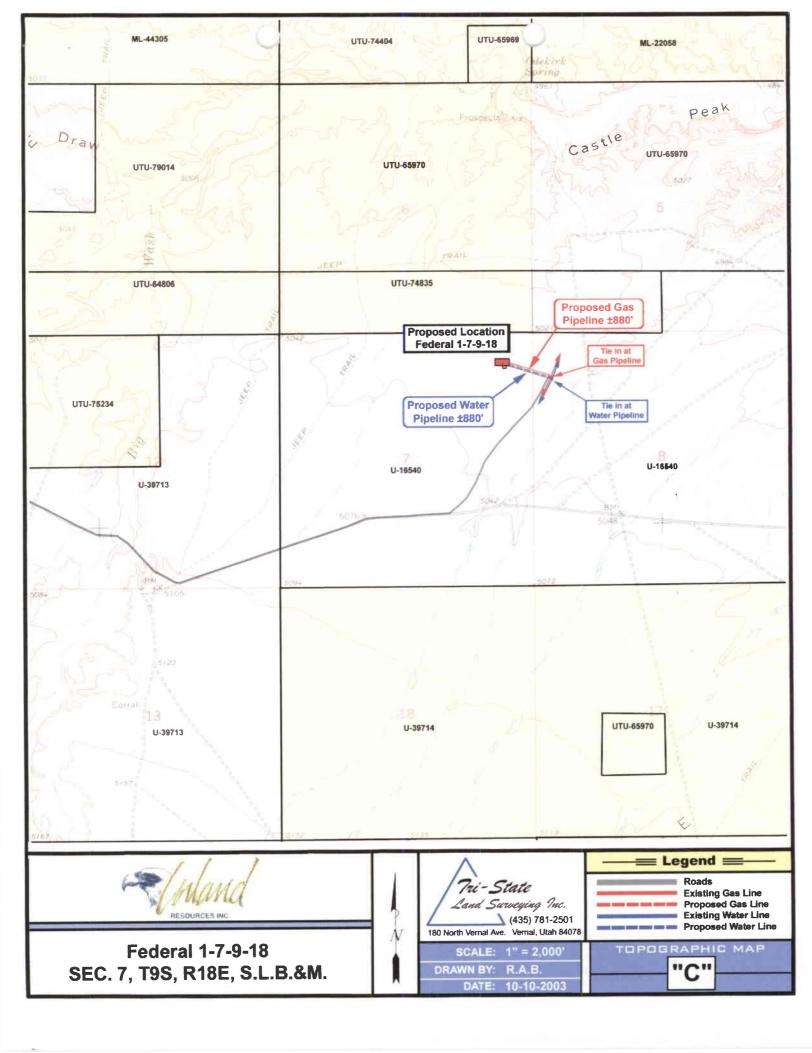
TYPICAL RIG LAYOUT
FEDERAL 1-7-9-18

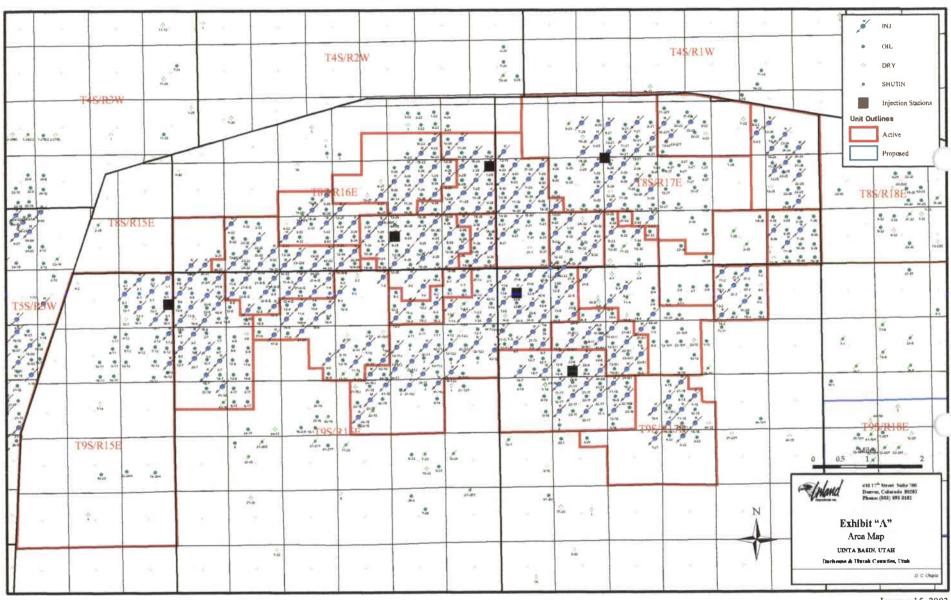


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DRAWN BY:	J.R.S.	DA TE:	10-9-03	/ Land Surveying, Ir 180 NORTH VERNAL AVE. VERNAL	C. ., UTAH 84078

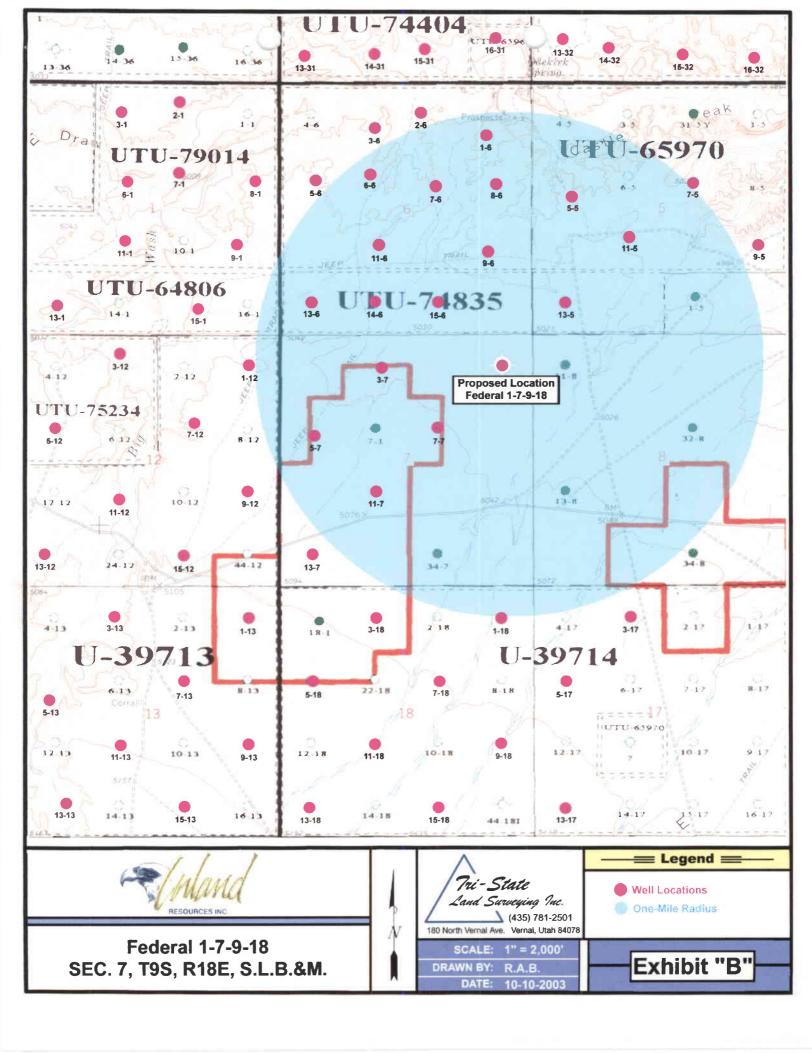








January 15, 2003



2-M SYSTEM

Blowout Prevention Equipment Systems

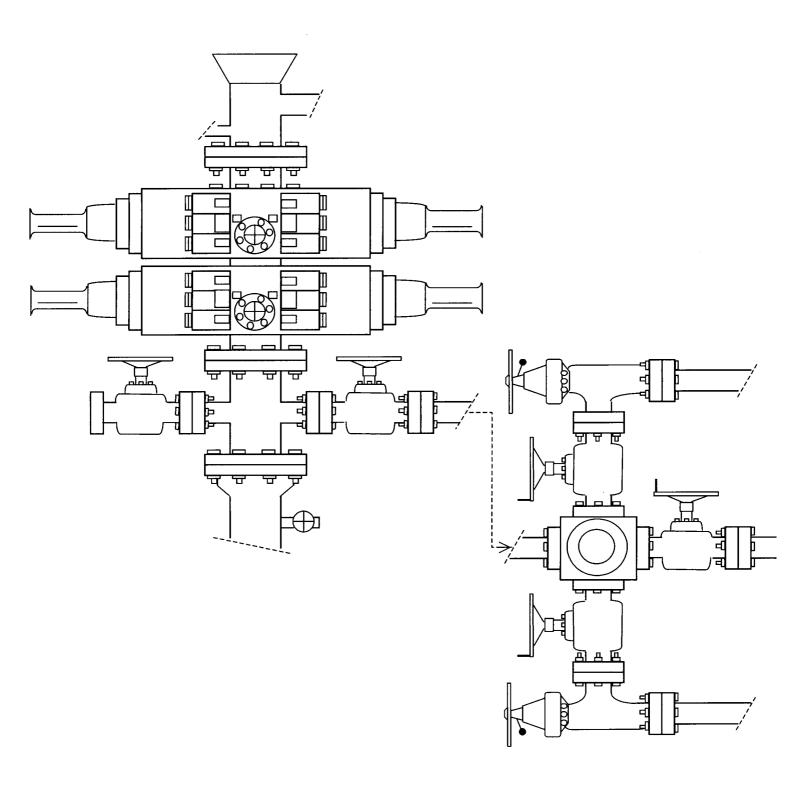


EXHIBIT C

Exhibit "D"

Page 1 of 2

CULTURAL RESOURCE INVENTORY OF INLAND PRODUCTION'S BLOCK PARCEL IN TOWNSHIP 9 SOUTH, RANGE 18 EAST, SECTION 7 IN UINTAH COUNTY, UTAH

by

Katie Simon and Keith R. Montgomery

Prepared For:

Bureau of Land Management Vernal Field Office

Prepared Under Contract With:

Inland Production Route 3 Box 3630 Myton, Utah 84052

Prepared By:

Montgomery Archaeological Consultants P.O. Box 147 Moab, Utah 84532

MOAC Report No. 03-213

January 20, 2004

United States Department of Interior (FLPMA)
Permit No. 03-UT-60122

State of Utah Antiquities Project (Survey) Permit No. U-04-MQ-0006,b

INLAND RESOURCES, INC.

PALEONTOLOGICAL FIELD SURVEY OF PROPOSED PRODUCTION DEVELOPMENT AREAS, UINTAH COUNTY, UTAH

ADDENDUM OF SECTION 7, T 9 S, R 18 E TO REPORT OF:

Sections 3, 4, & 10, T 9 S, R 18 E; Section 7, T 9 S, R 19 E (dated November 15, 2003)

REPORT OF SURVEY

Prepared for:

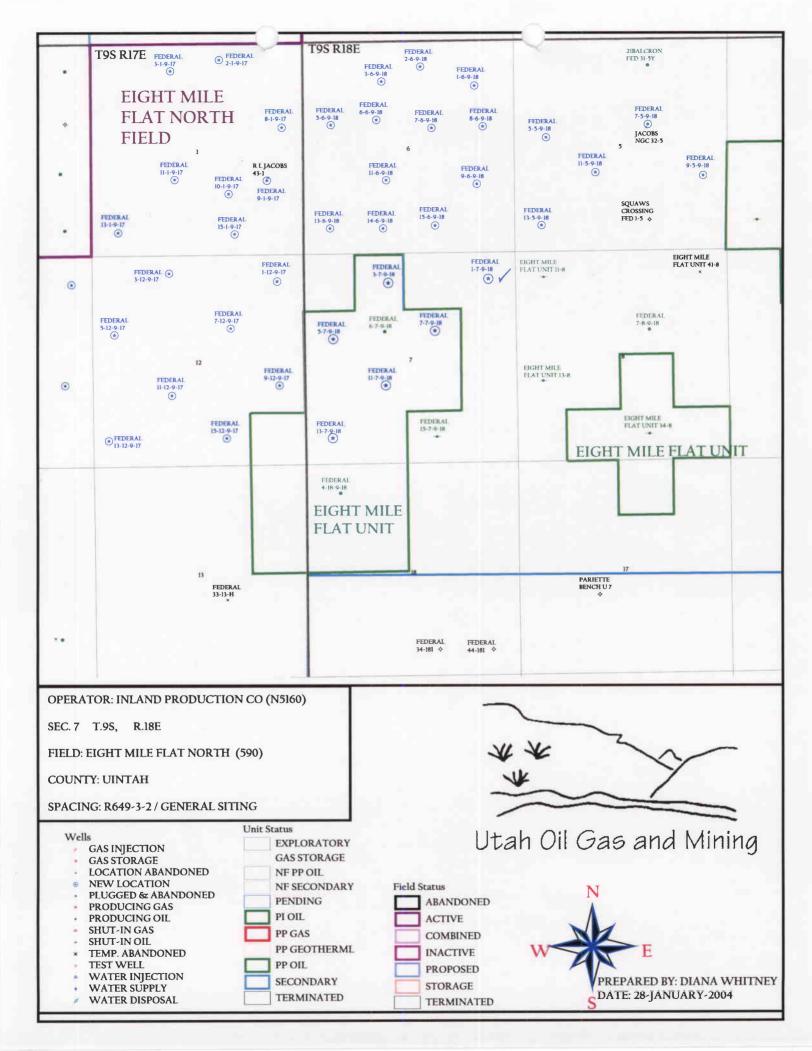
Inland resources, Inc.

Prepared by:

Wade E. Miller Consulting Paleontologist November 21, 2003

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVE	ED: 01/27/2004	API NO. ASSIGNE	ED: 43-047-3544	7
OPERATOR:	FEDERAL 1-7-9-18 INLAND PRODUCTION (N5160) MANDIE CROZIER	PHONE NUMBER: 43	35-646-3721	
PROPOSED LO		INSPECT LOCATN	BY: / /	
NENE SURFACE	07 090S 180E : 0660 FNL 0660 FEL	Tech Review	Initials	Date
UINTAH	0660 FNL 0660 FEL FLAT NORTH (590)	Engineering Geology		
	1 - Federal	Surface		
LEASE NUMBE	ER: U-16540 NER: 1 - Federal DRMATION: GRRV	LATITUDE: 40.0 LONGITUDE: 109.		
Plat Bond: (No. Potas Oil S Water (No. RDCC (Date	ND/OR REVIEWED: Fed[1] Ind[] Sta[] Fee[] 4488944	R649-3-3. E Drilling Uni Board Cause Eff Date: Siting:	General rom Qtr/Qtr & 920': Exception	Between Wells
COMMENTS: _	Sop, Seperate for NS: 1- Edwa O appro 2- Spacing 809	waQ		





Department of Natural Resources

Division of Oil, Gas & Mining

ROBERT L. MORGAN Executive Director

LOWELL P. BRAXTON
Division Director

MICHAEL O. LEAVITT

Governor

OLENE S. WALKER Lieutenant Governor

January 28, 2004

Inland Production Company Rt. 3, Box 3630 Myton, UT 84052

Re:

Federal 1-7-9-18 Well, 660' FNL, 660' FEL, NE NE, Sec. 7, T. 9 South,

R. 18 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-35447.

Sincerely,

John R. Baza
Associate Director

pab

Enclosures

cc:

Uintah County Assessor

Bureau of Land Management, Vernal District Office



Operator:	Inland	Production Company	
Well Name & Number	Federal	1-7-9-18	
API Number:	43-047	-35447	
Lease:	U-1654	0	
Location: <u>NE NE</u>	Sec7_	T. 9 South	R. 18 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

• Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
- 5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

ORM 3160-5 (June 1990)	DEPAR_IENT	D STATES TOF THE INTERIOR AND MANAGEMENT		FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993 se Designation and Serial No.
005 SUNE	RY NOTICES AND	REPORTS ON WELLS	UT	ГU-16540
		en or reentry a different reservoir. R PERMIT -" for such proposals	6. If In	dian, Allottee or Tribe Name
	SUBMIT IN	TRIPLICATE	7. If U N /	nit or CA, Agreement Designation
X Well W	as Other		FE 9. API	Name and No. DERAL 1-7-9-18 Well No.
2. Name of Operator	DUCTION COMPANY			-047-35447 d and Pool, or Exploratory Area
3. Address and Telephone No. Rt. 3 Box 3630, My	DUCTION COMPANY ton Utah, 84052 435-64	6-3721	El	GHT MILE FLAT NORTI
4. Location of Well (Footage, Sec. 660 FNL 660 FEL	T., R., m., or Survey Description) NE/NE Section	7, T9S R18E	UI	INTAH COUNTY, UT.
		O INDICATE NATURE OF NOTICE, REPO	ORT, OR OT	HER DATA
TYPE OF SU	BMISSION	TYPE O	F ACTION	
St	otice of Intent ibsequent Report nal Abandonment Notice	Abandonment Recompletion Plugging Back Casing Repair Altering Casing X Other Permit Extension		Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water eport results of multiple completion on Well ion or Recompletion Report and Log form.)
ally drilled, give subsurface location	ons and measured and true vertical depths fo	nd give pertinent dates, including estimated date of starting any proposer all markers and zones pertinent to this work.)* to extend the Permit to Drill this work./28/05).		
Ut: Oil, (Date:	proved by the ah Division of Gas and Mining	RECEIVE	D ´	•
Ву:		JAN 1 4 2005	; ; ;	TAD-45
		DIV. OF OIL, GAS & MIN	ling	

14. I hereby certify that the foreusing is rue and correct
Signed Mandie Crozier

CC: UTAH DOGM

(This space for Federal or State office use)
Approved by ______ Title _____ Title _____ Date

Conditions of approval, if any:

CC: Utah DOGM

Application for Permit to Drill Request for Permit Extension Validation (this form should accompany the Sundry Notice requesting permit extension)

API: 43-047-35447 Well Name: Federal 1-7-9-18 Location: NE/NE Section 7, T9S R18E Company Permit Issued to: Newfield Production Company Date Original Permit Issued: 1/28/2004	
The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.	
Following is a checklist of some items related to the application, which should be verified.	<u>e</u>
If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes□No□ ♠	
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes□Nov	ct
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes□No▶	
Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes□Nov	
Has the approved source of water for drilling changed? Yes☐No之	
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes□Note	
Is bonding still in place, which covers this proposed well? Yes No□	
Signature Date RECEIVED	
Title: Regulatory Specialist JAN 1 4 2005	
Representing: Newfield Production Company & MINING	



BLM VERNAL, UTAH

BLM VERNAL, UTAH

(September 2001) UNITED STATES	- 11 11 1		FORM APPR OMB No. 100 Expires January	04-0136
DEPARTMENT OF THE IN			5. Lease Serial No.	· · · · · · · · · · · · · · · · · · ·
BUREAU OF LAND MANAG	GEMENT		U-16540	
0~0~6 APPLICATION FOR PERMIT TO DE	RILL OR REENTER		6. If Indian, Allottee or	Tribe Name
V V V			N/A	
la. Type of Work: DRILL REENTE	R		7. If Unit or CA Agreeme	ent, Name and No.
			N/A	
lb. Type of Well: 🔼 Oil Well 🚨 Gas Well 🚨 Other	Single Zone Multi	ple Zone	8. Lease Name and Well Federal 1-7-9-18	No.
Name of Operator Inland Production Company			9. API Well No. 43, 047, 3	5447
3a. Address	3b. Phone No. (include area code)		10. Field and Pool, or Expl	oratory
Route #3 Box 3630, Myton UT 84052	(435) 646-3721		Eight Mile Flat	
4. Location of Well (Report location clearly and in accordance with	any State requirements.*)		11. Sec., T., R., M., or Blk.	and Survey or Area
At surface NE/NE 660' FNL 660' FEL				
At proposed prod. zone			NE/NE Sec. 7, TS	9S R18E
14. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State
Approximatley 18.8 miles southeast of Myton, Utah			Uintah	UT
15. Distance from proposed* location to nearest property or lease line, ft.	16. No. of Acres in lease	17. Spacin	g Unit dedicated to this well	
(Also to nearest drig, unit line, if any) Approx. 660' f/lse, NA f/unit	1356.44		40 Acres	
18. Distance from proposed location*	19. Proposed Depth	20. BLM/I	BIA Bond No. on file	
to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 2559'	6500'	#4	1488944	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will sta	rt*	23. Estimated duration	
5031' GL	2nd Quarter 2004		Approximately seven (7) days from s	pud to rig release.
	24. Attachments			
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No.1, shall be att	ached to this	form:	
Well plat certified by a registered surveyor.	4. Bond to cover the	ne operation	ns unless covered by an exist	ting bond on file (see
2. A Drilling Plan.	Item 20 above).	•		5 (800
3. A Surface Use Plan (if the location is on National Forest System)	Lands, the 5. Operator certific		ormation and/or plans as ma	y he required by the

authorized officer.

Name (Printed/Typed)

Title Wharehe hogies

Mandie Crozier

Date / 26/04

Regulatory Recialist

Approved by (Signatury)

Title Assistant Fleta Mishardan

Mineral Resources

Name (Printed/Typed)

02/07/2005

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

RECEIVED

FEB 1 5 2005

DIV. OF OIL, GAS & MINING

4006 M

NOTICE OF APPROVAL

C49551047

COAs Page 1 of 2 Well No.: Federal 1-7-9-18

CONDITIONS OF APPROVAL APPLICATION FOR PERMIT TO DRILL

Company/Operator:

Inland Production Company

Well Name & Number: Federal 1-7-9-18

API Number:

43-047-35447

Lease Number:

U-16540

Location:

NENE Sec. 7 T.9S R. 18E

Agreement:

N/A

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

Please submit to this office, in LAS format, an electronic copy of all logs run on this well This submission will replace the requirement for submittal of paper logs to the BLM.

In the event after-hours approvals are necessary, you must contact one of the following individuals:

Kirk Fleetwood

(435) 828-7874

Petroleum Engineer

Michael Lee

(435) 828-7875

Petroleum Engineer

BLM FAX Machine (435) 781-4410

COAs Page 2 of 2 Well No.: Federal 1-7-9-18

CONDITIONS OF APPROVAL FOR THE SURFACE USE PROGRAM OF THE APPLICATION FOR PERMIT TO DRILL

Company/Operator:

Inland Production Company

API Number:

<u>43-047-35447</u>

Well Name & Number: Federal 1-7-9-18

Lease Number:

U-16540

Location:

NENE Sec. 7 T. 9 S. R. 18 E.

Surface Ownership:

BLM

Date NOS Received:

None

Date APD Received: 1-27-04

-No construction or drilling shall be allowed during the burrowing owl nesting season (April 1 to Aug. 15), without first consulting the BLM biologist. If no nesting owls are found, drilling will be allowed.

- -Mountain Plover surveys would have to be conducted in accordance with the U.S. Fish and Wildlife Service Mountain Plover Survey Guidelines.
- -To reduce noise levels in the area, a hospital muffler or multi-cylinder engine shall be installed on the pumping unit.



Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.





Secretary of State

ARTICLES OF AMENDMENT TO THE ARTICLES OF INCORPORATION OF INLAND PRODUCTION COMPANY

In the Office of the Secretary of State of Texas

SEP 02 2004

Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 - Name

The name of the corporation is Inland Production Company.

ARTICLE 2 - Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE - The name of the corporation is Newfield Production Company."

ARTICLE 3 - Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1st day of September, 2004.

INLAND RESOURCES INC.

Susan G. Riggs, Treasurer



United States Department of the Interior



BUREAU OF LAND MANAGEMENT Utah State Office P.O. Box 45155 Salt Lake City, UT 84145-0155 http://www.blm.gov

IN REPLY REFER TO: 3106 (UT-924)

September 16, 2004

Memorandum

To:

Vernal Field Office

From:

Acting Chief, Branch of Fluid Minerals

Subject:

Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Milas Llouters

Michael Coulthard Acting Chief, Branch of Fluid Minerals

Enclosure

1. State of Texas Certificate of Registration

cc:

MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225 State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114

Teresa Thompson Joe Incardine

Connie Seare

			•		
UTSL-	15855	61052	73088	76561	
071572A	16535	62848	73089	76787	
065914	16539	63073B	73520A	76808	
.*	16544	63073D	74108	76813	
	17036	63073E	74805	76954	(20723)
	17424	63073O	74806	76956	63073X
	18048	64917	74807	70936 77233	63098A
UTU-	18399	64379	74807		68528A
	19267	64380	74389	77234	72086A
02458	26026A	64381	74399	77235	72613A
03563	30096	64805	74390	77337	73520X
03563A	30103	64806	74391	77338	74477X
04493	31260	64917	74392	77339	75023X
05843	33992	65207	74398	77357	76189X
07978	34173	65210	74399	77359	76331X
09803	34346	65635	74400	77365	76788X
017439B	36442	65967	74404	77369	77098X
017985	36846	65969	74404	77370 77546	77107X
017991	38411	65970	74406	77553·	77236X
017992	38428	66184	74400	77554	77376X
018073	38429	66185	74805	78022	78560X
019222	38431	66191	74806	79013	79485X
020252	39713	67168	74826	79013 79014	79641X
020252A	39714	67170	74827	79014	80207X
020254	40026	67208	74835	79015 79016	81307X
020255	40652	67549	74868	79010	
020309D	40894	67586	74869	79831	
022684A	41377	67845	74870	79832 ⁻	
027345	44210	68105	74872	79832 [,]	·
034217A	44426	68548	74970	79831	
035521	44430	68618	75036	79834	
035521A	45431	69060	75037	80450	
038797	47171	69061	75038	80915	
058149	49092	69744	75039	81000	
063597A	49430	70821	75075	. 01000	
075174	49950	72103	75078		*
096547	50376	72104	75089		
096550	50385	72105	75090		
	50376	72106	75234		
	50750	72107	75238		
10760	51081	72108	76239		
11385	52013	73086	76240		
13905	52018	73087	76241		
15392	58546	73807	76560		
•		•	70000		

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

007

Change of Operator (Well Sold)

ROUTING 1. GLH

2. CDW 3. FILE

Designation of Agent/Operator

X Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:				9/1/2004					
FROM: (Old Operator):				TO: (New O	perator):				7
N5160-Inland Production Company				N2695-Newfield Production Company					
Route 3 Box 3630					Box 3630				İ
Myton, UT 84052				Myton,	UT 84052				
Phone: 1-(435) 646-3721				Phone: 1-(435)	646-3721	· ·			
CA	No.			Unit:					7
WELL(S)									7
NAME	SEC	TWN	RNG	API NO		LEASE	WELL	WELL	7
		1			NO	TYPE	TYPE	STATUS	
FEDERAL 13-1-9-17	01			4304735181		Federal	ow	P	K
FEDERAL 15-1-9-17	01	1		4304735182	·	Federal	ow	P	K
FEDERAL 3-11-9-17	11			4304735295	14258	Federal	ow	P	K
FEDERAL 5-5-9-18	05			4304735290		Federal	OW	NEW	K
FEDERAL 7-5-9-18	05	090S	180E	4304735291		Federal	ow	APD	K
FEDERAL 9-5-9-18	05	090S	180E	4304735292	14554	Federal	ow	DRL	K
FEDERAL 11-5-9-18	05	090S	180E	4304735293		Federal	ow	APD	K
FEDERAL 13-5-9-18	05	090S	180E	4304735294		Federal	ow	APD	K
FEDERAL 9-6-9-18	06	090S	180E	4304735183	14153	Federal	ow	P	K
FEDERAL 11-6-9-18	06	090S	180E	4304735184	14127	Federal	ow	P	K
FEDERAL 15-6-9-18	06			4304735185	14120	Federal	ow	P	K
FEDERAL 1-6-9-18	06	090S	180E	4304735296		Federal	ow	NEW	K
FEDERAL 1-7-9-18	07			4304735447		Federal	ow	APD	K
FEDERAL 3-7-9-18	07	090S	180E	4304735448		Federal	ow	APD	K
FEDERAL 5-7-9-18	07			4304735449		Federal	ow	APD	K
FEDERAL 7-7-9-18	07			4304735450		Federal	ow	APD	K
FEDERAL 11-7-9-18	07			4304735451		Federal	ow	APD	K
FEDERAL 13-7-9-18	07			4304735452		Federal	ow	APD	K
FEDERAL 10-7-9-18	07			4304735453		Federal	ow	APD	K
FEDERAL 14-7-9-18	07		180E			Federal	ow	APD	K
	<u> </u>	3,00				- 300101	1		+-
							1		1

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

(R649-8-10) Sundry or legal documentation was received from the FORMER operator on: 9/15/2004

(R649-8-10) Sundry or legal documentation was received from the NEW operator on: 9/15/2004

The new company was checked on the Department of Commerce, Division of Corporations Database on: 3. 2/23/2005

Is the new operator registered in the State of Utah: YES Business Number: 755627-0143

If NO, the operator was contacted contacted on:

waived			
he BIA has appr			
ne BIA has appr			
he BIA has appr			
* *		merger,	•
ses on:	BLM	-	BIA
r for wells listed or	n:	n/a	_
` '		,	
ed within a CA on:		na/	
Division has appro	ved UIC I	orm 5, Tra	insfer of Authority to
			2/23/2005
•	` '		
2/28/2005			
2/28/2003			
e Spread Sheet on	:	2/28/200	<u>5</u>
2/28/2005			
2/28/2003			
2/28/2005			
2/28/2005			
2/28/2003			
n:	waived		
			· · · · · · · · · · · · · · · · · · ·
I IT 0056			
01 0030			
61BSBDH2912			
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ed by Bond Number	r (
n their bond on:	n/a*		
n/a		_	
		• 6	at any see
		letter from	the Division
-	IVa	-	
any to Newfield Pro	oduction (Company -	received 2/23/05
	contacted and infore e on:	2/28/2005 2/28/2005 2/28/2005 2/28/2005 2/28/2005 2/28/2005 2/28/2005 1: waived UT 0056 61BSBDH2912 and by Bond Number In their bond on: n/a* n/a contacted and informed by a e on: n/a	contacted and informed by a letter from

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company:	NEWFIEL	D PRODUCTI	ON COMPANY	
Well Name:	FEDERAI	<u>. 1-7-9-18</u>		
Api No: 43-047-3	5447	_Lease Type:	FEDERAL	
Section 07 Township	098 Range 18E	County	UINTAH	
Drilling Contractor	NDSI	RIG #_	NS#1	
SPUDDED: Date	09/09/05			
Time	12:00 NOON			
How	DRY			
Drilling will Commo	ence:			
Reported by	RAY HERR	ERA	_	
Telephone #	1-435-823-19	990		
Date 09/08/2005	Signed	СНД		

WELL LOCATION

SPUD

Production Clerk
Title

EFFECTIVE

CALE

PAGE
8 3

September 15, 2005

				WELL HAVE			WELL LC			CATE	CATE
HO T	CURRENT	HEV	API SUMBER	ARTINE	QQ	8	TP	RG	COUNTY	UNIL	61.1.
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NOTE: Use COMMENT section to explain the each Action Code was selected

The Re-easign well from one axisting emity to another socialing waiting

D - Reassign well have one applied entity to a new or key

ACTION CODES (See asincticus on back of forms A. Estables aswessibly for nearwell (a.r. circ and only) B. And reward to existing utility (group or task well)

E - Other (cop air in ocurantes sactors)

RECEIVED

SEP 1 5 2005

FORM 3160-5 (September 2001)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0135 Expires January 31,2004

BUREAU OF LAND MANAGEMENT						5. Lease Serial No.				
SUNDRY NOTICES AND REPORTS ON WELLS)	•			
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.						6. If Indian, Allottee or Tribe Name.				
SUBMITINET	RIPLICATIC Office Instruc	ions (ii re e	ike-kide		7. If Unit or (CA/Agreem	ent. Name ar	nd/or No		
	《 2008年》, 李 维从在2006年间,	40.00			SUNDANC		,			
1. Type of Well	_				SUNDAME	LONII				
	Other				8. Well Name	and No.				
Name of Operator Newfield Production Company	•				FEDERAL	1-7-9-18				
3a. Address Route 3 Box 3630	2h	Phone No. Grant			9. API Well N					
Myton, UT 84052		Frione No. (<i>inci</i> 5.646.3721	ne No. (include are code) 4304735447							
4. Location of Well (Footage, Sec		5.040.3721			10. Field and Pool, or Exploratory Area Monument Butte					
660 FNL 660 FEL	, -, -, -,, -, -, -, -, -, -, -, -, -, -, -, -, -,			F	11. County or		te			
NE/NE Section 7 T9S R18	E				-		••			
					Uintah,UT					
12. CHECK	APPROPRIATE BOX(ES) T	O INIDICAT	E NATU	RE OF NO	TICE, OR	OTHER	DATA	•		
TYPE OF SUBMISSION				ACTION		•				
			1111111111	ACTION						
☐ Notice of Intent	Acidize	Deepen		Production	(Start/Resume	e) 🔲 V	Vater Shut-O	ff .		
	Alter Casing	Fracture Treat		Reclamatio	n	u v	Vell Integrity	,		
■ Subsequent Report	Casing Repair	New Construct	ion 🔲	Recomplete	Recomplete		ther			
Final Abandonment Notice	Change Plans	Plug & Abando	n 🛄	Temporaril	•		Spud Notice			
T man reduced mich reduce	Convert to Injector	Plug Back		Water Disp	osal	_				
csgn. Set @ 311.09'/ KB O	IS # 1.Spud well @ 12:00 PM. On 9/15/2005 cement with 160 curned 4 bbls cement to pit. Wo	sks of class "	2 1/4" hole G" w/ 3%	e with air m CaCL2 + 1	ist. TIH W/ /4# sk Cel	7 Jt's 8 5 lo- Flake	6/8" J-55 2: Mixed @ 1	4 # 5.8		
I hereby certify that the foregoing is	true and correct	Title								
Name (Printed/ Typed)										
Floyd Mitchell Drilling Supervisor Signature F() Date										
Signature Date 09/15/2005										
· · · · · · · · · · · · · · · · · · ·				7						
THIS SPACE TOR ERDERALORS OF HOUSE OF STATE OF THE SPACE										
Approved by	<u> Fitle</u>			Date						
	ed. Approval of this notice does not warrant uitable title to those rights in the subject lea uct operations thereon.	+	Office							
Title 18 U.S.C. Section 1001 and Title 43	U.S.C. Section 1212, make it a crime for an statements or representations as to any matter	ny person knowing er within its iurisdi	y and willfull	y to make to an	y department or	agency of th	e United			
										

(Instructions on reverse)

SEP 2 3 2005 Uplication, CAS & MICHING

NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

			8 5/8	CASING SET	AT	311.09			
	' <u>-</u>	SET	AT 31 <u>1'</u>		OPERATOR	٠	Newfield	Production (Company
DATUM	12. KB		· · · · · · · · · · · · · · · · · · ·		WELL	Federal 1-	7-9-18		
DATUM TO	CUT OFF C	ASING _			FIELD/PRO	SPECT	Monumer	t Butte	
DATUM TO	BRADENHE	AD FLANGE			CONTRACT	TOR & RIG#		NDSI NS#	1
TO DRILLER	310'	LOGG	ER						
HOLE SIZE	12 1/4	<u> </u>		<u> </u>					
LOG OF CA	SING STRIN	IG:							
PIECES	OD	ITEM -	MAKE - DESC	RIPTION	WT/FT	GRD	THREAD	CONDT	LENGTH
		41.13' sh jt'							
		WHI - 92 cs	g head				8rd	Α	0.95
7	8 5/8"	Maverick S1	Γ&C csg		24#	J-55	8rd	Α	300.24
			GUIDE	shoe			8rd	Α	0.9
CASING INV	ENTORY B	AL.	FEET	JTS	TOTAL LEN	GTH OF STE	RING		301.09
TOTAL LEN	GTH OF STE	RING	301.09	7	LESS CUT (OFF PIECE			2
LESS NON (SG. ITEMS		1.85		PLUS DATU	M TO T/CUT	OFF CSG		12
PLUS FULL	JTS. LEFT C	DUT	0		CASING SE	T DEPTH			311.09
	TOTAL		299.24	7	lı			·	
TOTAL CSG	DEL. (W/O	THRDS)	299.24	7		RE			
TIMING			1ST STAGE						
BEGIN RUN	CSG.	Spud	9/9/2005	12:00 PM	GOOD CIRC	THRU JOB		Yes	
CSG. IN HO	E		910/2005	12:00 PM	Bbis CMT Ci	IRC TO SURI	FACE	4	
BEGIN CIRC			9/15/2005	10:06 AM	RECIPROCA	ATED PIPE F	OR	THRU	FT STROKE
BEGIN PUM	PCMT		9/15/2005	10:17 AM	DID BACK P	RES. VALVE	HOLD?	N/A	
BEGIN DSPL	CMT		9/15/2005	10:26 AM	BUMPED PL	.UG TO		832	PSI
PLUG DOW	١		9/15/2005	10:32 AM					
CEMENT US	ED			CEMENT COM	IPANY-	B. J.			
STAGE	# SX			CEMENT TYP	E & ADDITIV	ES			
1	160	Class "G" w	/ 2% CaCL2 + 1	/4#/sk Cello-Fl	ake mixed @	15.8 ppg 1.1	7 cf/sk yield		

CENTRALIZE	R & SCRAT	TCHER PLAC	EMENT			SHOW MAKE	& SPACIN	IG	
Centralizers	- Middle fi	rst, top seco	ond & third for	3					
	-								

DATE <u>9/15/2005</u>

COMPANY REPRESENTATIVE Floyd Mitchell

FORM 3160-5 (September 2001)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0135 Expires January 31,2004

5.	Lease Se	rial No.		
	UTU1654	0	•	
4	If Indian	Allotton or T	riba Nama	

SUNDRY NOTICES AND REPORTS ON Do not use this form for proposals to drill or s abandoned well. Use Form 3160-3 (APD) for s	to re-enter an	6	UTU16540 If Indian, Allottee or	Tribe Name.
Do not use this form for proposals to drill or abandoned well. Use Form 3160-3 (APD) for si 1. Type of Well Oil Well Gas Well Other 2. Name of Operator Newfield Production Company 3a. Address Route 3 Box 3630 Myton, UT 84052 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 660 FNL 660 FEL NE/NE Section 7 T9S R18E 12. CHECK APPROPRIATE BOX(ES) TO INTERPRETATION TYPE OF SUBMISSION Notice of Intent	to re-enter an uch proposals. di Ala Sala Sala Sala Sala Sala Sala Sala	7. 8. 8. 9. TURE OF NOT OF ACTION Production(S	If Indian, Allottee or If Unit or CA/Agreet SUNDANCE UNIT Well Name and No. FEDERAL 1-7-9-18 API Well No. 4304735447 D. Field and Pool, or F Monument Butte 1. County or Parish, S Uintah, UT TICE, OR OTHE	Exploratory Area State R DATA Water Shut-Off
	cture Treat W Construction g & Abandon g Back	Reclamation Recomplete Temporarily Water Dispo	Abandon	Well Integrity Other Weekly Status Report
under which the work will be performed or provide the Bond No. on file with BLM/B involved operations. If the operation results in a multiple completion or recompletion Abandonment Notices shall be filed only after all requirements, including reclamation inspection.) On 10/1/05 MIRU NDSI Rig # 2. Set all equipment. Pressure to csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office cement & shoe. Drill a 7.875 hole with fresh water to a depth of Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, show the complete the state of the complete the shoe of the state of the stat	n in a new interval, a Fin, have been completed the street Kelly, TIW, 6 was notified of of 5950'. Lay do noe jt, float collar id. The 425 sks	orm 3160-4 shall be fit, and the operator has Choke manifold test. PU BHA a wn drill string & 1,140 jt's of 5.5 cement mixed (, & Bop's to 2,000 nd tag cement @ BHA. Open hole J-55, 15.5# csgn. @ 14.4 ppg & 1.2	o completed. Final is ready for final psi. Test 8.625 260'. Drill out log w/ Set @ 5928.12/ 4 yld. Returned
I hereby certify that the foregoing is true and correct Name (Printed/ Typed) Don Bastian	Title Drilling Foreman			
Signature Don Bastian	Date 10/09/2005			
A PARTY OF THE PROPERTY OF THE SERVICE PROPERTY OF	Prancist.			
Approved by Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any positions.	Title Office	rillfully to make to an	Date	of the United

(Instructions on reverse)

CCT 1 2 2005

NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

			5 1/2"	CASING SET	Fit clir @ '	5928.12	-		
LAST CASIN	IG 8 5/8"	SET	AT 3 <u>11'</u>		_	2	Newfield F	Production (Company
DATUM			<u> </u>		WELL			Todaction	Dompany
		ASING	12'				Monumen	t Butte	
		AD FLANGE				_		NDSI rig #2	2
TD DRILLER	5950'	LOGG	i 5949'						
HOLE SIZE									
LOG OF CA	SING STRIN	G:							
PIECES	OD	ITEM -	MAKE - DESC	RIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt							14
		Short jt	3903' (576')						
139	5 1/2"	ETC LT & C	casing		15.5#	J-55	8rd	.A	5872.25
		Float collar							0.6
1	5 1/2"	ETC LT&C			15.5#	J-55	8rd	Α	42.62
			GUIDE	shoe			8rd	Α	0.65
CASING INV	ENTORY BA	AL.	FEET	JTS	TOTAL LEN	GTH OF ST	RING		5930.12
TOTAL LENG	GTH OF STE	RING	G 5930.12 140			OFF PIECE			14
LESS NON C	S NON CSG. ITEMS 15.25			PLUS DATU	IM TO T/CU	T OFF CSG		12	
PLUS FULL	JTS. LEFT C	DUT	217.16	5	CASING SE	T DEPTH		į	5928.12
	TOTAL		6132.03	145	 1				
TOTAL CSG	. DEL. (W/O	THRDS)	6132.03	145	COMPAR	RE			
TIMING			1ST STAGE	2nd STAGE					
BEGIN RUN	CSG.		8;00am	10/8/2005	GOOD CIRC	THRU JOE	·	Yes	
CSG. IN HOI	LE ·		10;30am	10/8/2005	Bbis CMT C	IRC TO SUF	RFACE	25	
BEGIN CIRC			10;30am	10/8/2005	RECIPROCA	ATED PIPE	FOR	THRUSTRO	<u>KE</u>
BEGIN PUM	P CMT		11;50am	10/8/2005	DID BACK F	RES. VALV	EHOLD?_	Yes	
BEGIN DSPL	CMT		12:49pm	10/8/2005	BUMPED PL	LUG TO _		2110	
PLUG DOW	N		1:20pm	10/8/2005					
CEMENT US	ED			CEMENT CO	MPANY-	B. J.			
STAGE	# SX			CEMENT TYP	E & ADDITIV	/ES			****
1	350	Premlite II w	/ 10% gel + 3 9	% KCL, 3#'s /sl	CSE + 2# sl	k/koiseai + 1.	/4#'s/sk Cello	Flake	
		mixed @ 11	.0 ppg W / 3.43	cf/sk yield					
2	425	50/50 poz V	// 2% Gel + 3%	KCL, .5%EC1	,1/4# sk C.F.	2% gel. 3%	SM mixed @	14.4 ppg W/ 1	1.24 YLD
CENTRALIZI	ER & SCRA	TCHER PLAC	CEMENT			SHOW MAK	E & SPACIN	IG	
Centralizers	s - Middle fi	rst, top seco	ond & third. Th	nen every thir	d collar for a	a total of 20).		
COMPANY F	REPRESENT	TATIVE _	Don Bastian	l			DATE	10/9/2005	

RECEIVED

OCT 1 2 2003

FORM 3160-5

INITED STATES

FORM APPROVED

September 2001)	DEPARTMENT OF THE I				dB No. 1004-0135 ires January 31,2004
	BUREAU OF LAND MANA			5. Lease Serial No	
SUNDRY	NOTICES AND REPO	RTS ON WELLS		UTU16540	
Do not use t abandoned w	his form for proposals to ell. Use Form 3160-3 (AP	D) for such proposals	•	6. If Indian, Allotte	ee or Tribe Name.
SUBMIT IN T	RIPLICATE - Other Inst	ructions on reverse si	de	7. If Unit or CA/A	greement, Name and/or No.
				SUNDANCE UN	ЛТ
. Type of Well X Oil Well Gas Well	Other			8. Well Name and	No
2. Name of Operator				FEDERAL 1-7-9	
Newfield Production Company		T		9. API Well No.	-
Sa. Address Route 3 Box 3630		3b. Phone No. (include are 435.646.3721	code)	4304735447	, or Exploratory Area
Myton, UT 84052 I. Location of Well (Footage, Sec	c T R M., or Survey Description	1		Monument Butte	
660 FNL 660 FEL	.,, .,,,	,		11. County or Pari	sh, State
NE/NE Section 7 T9S R18	BE			Uintah,UT	
12 CHECK	K APPROPRIATE BOX(E	S) TO INIDICATE NA	TURE OF N	OTICE, OR OT	HER DATA
TYPE OF SUBMISSION			E OF ACTION		
	Acidize	Deepen	☐ Production	on(Start/Resume)	☐ Water Shut-Off
X Notice of Intent	Alter Casing	Fracture Treat	Reclamat		Well Integrity
Subsequent Report	Casing Repair	New Construction	Recompl	ete	Other
	Change Plans	Plug & Abandon	Tempora	rily Abandon	
Final Abandonment Notice	Convert to Injector	Plug Back	X Water Di	sposal	
under which the work will be perfo involved operations. If the operation Abandonment Notices shall be fifed inspection.) Formation water is product Ashley, Monument Butte,	operation (clearly state all pertinent det or recomplete horizontally, give subsu mined or provide the Bond No. on file on results in a multiple completion or r d only after all requirements, including the d to a steel storage tank. Jonah, and Beluga water in l into approved Class II well	urface locations and measured and with BLM/BIA. Required subset recompletion in a new interval, a is greclamation, have been completed. If the production water ajection facilities by completed in the production of the production water ajection facilities by completed.	true vertical depth juent reports shall b Form 3160-4 shall ed, and the operator meets quality pany or contr	s of all pertinent marke be filed within 30 days be filed once testing ha r has determined that the guidelines, it is act trucks. Subsi	rs and zones. Attach the Bond following completion of the sbeen completed. Final the site is ready for final transported to the
Water not meeting quality approved surface disposal	criteria, is disposed at New I facilities.	/field's Pariette #4 dispo	sal well (Sec.	7, T9S R19E) o	r at State of Utah
		át:			
	l o FO	Accepted by th Utah Division o il, Gas and Mini R RECORD O	f na		
I hereby certify that the foregoing	is true and correct	Title			
Name (Printed/Typed)		Pagulatory Spec	ialiat		

I hereby certify that the foregoing is true and correct	Title			
Name (Printed/Typed) Mandie Crozier	Regulatory Specialist	Regulatory Specialist .		
Signature Date 10/31/2005				
THIS SPACE FOR FEE	ERAL OR STATE OFFI	CE USE		
Angered by	Title	Date		
Approved by Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.				
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any p States any false, fictitious and fraudulent statements or representations as to any matter w	person knowingly and willfully to make within its jurisdiction	to any department or agency of the ENED		

(Instructions on reverse)

NOV 0 2 2005

FORM 3160-5 (September 2001)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0135 Expires January 31,2004

	EFARIMENT OF THE			Exp	oires January 31,2004
ŀ	BUREAU OF LAND MAN	AGEMENT		5. Lease Serial No	0.
SUNDRY	NOTICES AND REP	ORTS ON WELLS		UTU16540	
Do not use to	his form for proposals t ell. Use Form 3160-3 (A	o arm or to re-enter an PD) for such proposal:	i.	6. If Indian, Allott	ee or Tribe Name.
upanaonea m				1	
SUBMIT IN T	RIPLICATE - Other In	structions on reverse si	de	7. If Unit or CA/A	agreement, Name and/or No.
					-
1. Type of Well				SUNDANCE UI	NI I
``	Other			8. Well Name and	No.
2. Name of Operator				FEDERAL 1-7-	9-18
Newfield Production Company				9. API Well No.	
3a. Address Route 3 Box 3630		3b. Phone No. (include are	e code)	4304735447	
Myton, UT 84052		435.646.3721			l, or Exploratory Area
4. Location of Well (Footage, Sec	:., T., R., M., or Survey Descrip	tion)		Monument Butt	e
660 FNL 660 FEL				11. County or Par	ish, State
NE/NE Section 7 T9S R18	E			Uintah,UT	
	, .	,, , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·	O Intuin, o 1	
12. CHECK	X APPROPRIATE BOX(ES) TO INIDICATE NA	ATURE OF N	OTICE, OR OT	HER DATA
TYPE OF SUBMISSION		TYP	E OF ACTION		
	Acidize	Deepen	Productio	n(Start/Resume)	☐ Water Shut-Off
X Notice of Intent	Alter Casing	Fracture Treat	Reclamat	,	Well Integrity
-	Casing Repair	New Construction	Recomple		=
Subsequent Report		·			Variance
Final Abandonment Notice	Change Plans	Plug & Abandon	_ ^	rily Abandon	variance
I man i toundomment i tomes	Convert to Injector	Plug Back	Water Di	sposar	
formation, which are relative separator to maximize gas. Newfield is requesting a variation as surge of gas when the that as well as risk a fire hazard	separation and sales. ariance for safety reasons iief hatches are open. Wh	s. Crude oil production ta iile gauging tanks, lease	nks equipped	with back press	ure devices will emit
			es de	management was of	•
			1.000	LINID CLEDY	
				11-04-0	5
			y Vita Alam)
			į.		j
I hereby certify that the foregoing i	is true and correct	Title			
Name (Printed/Typed)					
Mandie Crozier	1.	Regulatory Spec	ialist		
Signapare/	/! ^	Date .			
1 WWW	NUM	10/31/2005			
	THIS SPACE	FOR FEDERAL OR S	TATE OFFIC		
					uni Of This
Approved by		Accep Ittle	cy tha	aderal Appro	te-cocarv
Conditions of approval, if any, are attac	hed. Approval of this notice does r	ot warrant or	ion of	Action Is N	ACC 2001)
certify that the applicant holds legal or e	equitable title to those rights in the s	subject lease Ulai Hoffic	Mining	F	RECEIVED
which would entitle the applicant to con		Oil, Gasiano	7 Millian A		
Title 18 U.S.C. Section 1001 and Title -	43 U.S.C. Section 1212, make it a contract statements or representations as to	rune for any person knowingly and	yearfully to make to	any department or ag	NOV 1 2005
States any false, fictitious and frauduler	a statements of representations as to	Date: The Table	A + H		النائل خاتا الاحتا

(Instructions on reverse)

FORM 3160-5 (September 2001)

UNITE TATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0135 Expires January 31,2004

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

UTU16540
6 If India Allottee or Tribe Name

5. Lease Serial No.

Solid Production Company Solid Production Co	abandoned we	II. Use Form 3160-3 (API) for such proposa	ls.	o. Il Indian, Anoue	e of Thoe Name.
Specific Contents Spec	SUBMIT IN T	side	Ī			
Subsequent Report Subsequent Report Subse	Type of Well	Other				
Address Rout 3 Pos 300 3b. Phone No. (include are code) Modern No. (include are code)	Name of Operator	Other			4	
Myon. UT 84052	Newfield Production Company		DI DI LA NA GARAGA		1	
Location of Well (Footings, Sec., T., R., M., or Survey) Descriptions Monumer Butte I. Coursy or Parish, State Uninsh, MT			· · · · · · · · · · · · · · · · · · ·	re code)		, or Exploratory Area
12. CHECK APPROPRIATE BOX(ES) TO INIDICATE NATURE OF NOTICE, OK OTHER DATA TYPE OF SUBMISSION Acidize		., T., R., M., or Survey Description	<u>. </u>		Monument Butte	
12. CHECK APPROPRIATE BOX(ES) TO INIDICATE NATURE OF NOTICE, OR OTHER DATA TYPE OF SUBMISSION Notice of Intent					11. Country or Pari	ish, State
TYPE OF SUBMISSION Acidize	NE/NE Section 7 T9S R18	E			Uintah,UT	
Notice of Intent	12. CHECK	APPROPRIATE BO X(ES	S) TO INIDICATE N	IATURE OF N	OTICE, OR OT	HER DATA
Notice of Intent Alter Casing Fracture Treat Reclamation Well Integrity	TYPE OF SUBMISSION		TY	PE OF ACTION		
3. Describe Proposed or Completed Operation (clearly state of persons). Calls, including estimated starting date of any proposed work and approximate duration thereof. State proposal is to deepen directionally or recomplete horizontally, give substartine locations and measured and true vertical depths of all pertisems markers and zones. Attach the principle of the person of the production of the true of the person of the production of the p	_	☐ Alter Casing ☐ Casing Repair	Fracture Treat New Construction	Reclamat	ion et e	Well Integrity Other
proposal is to deepen directionally or recomplete horizonality, give autour laber the work will be performed or provide the Bond No. on size with BLMPBA. Required subsequent reports shall be filed with 18 Mercy following completion of the under which the work will be performed or provide the Bond No. on size with BLMPBA. Required subsequent reports shall be filed once assing has been completed. Final involved operations. If the operation results in a multiple completion or recompletion or a new interval, a Form 310-04 shall be filed once assing has been completed. Final involved operations. If the operation results in a multiple completion or recompleted, and the operation has determined that the site is ready for final inspection.) Status report for time period 10/19/05 - 10/28/05 Subject well had completion procedures initiated in the Green River formation on 10-19-05 without the use of a service rig over the well. A cement bond log was run and a total of four Green River intervals were perforated and hydrautically fracture treated with 20/40 mesh sand. Perforated intervals are as follows: Stage #1 (5767"-5775"); Stage #2 (5687-5670"), (5546"-5553"); Stage #3 (5447-5461"); Stage #4 (4933"-4498"). All perforations, were 4 JSPF. Composite flow-through frac plugs were used between stages. Fracs were flowed back through chokes. A service rig was moved over the well on 10-26-2005. Bridge plugs were drilled out and well was cleaned to 5884". Zones were swab tested for sand cleanup. A new 1 1/2" bore rod pump was run in well on sucker rods. Well was placed on production via rod pump on 10-28-2005. THIS SPACE FOR FEDERAL OR STATE OFFICE USE Title Date Title Date Office Office Which would entitle the applicant to conduct operations thereon.	Final Abandonment Notice	Convert to Injector	Plug Back	Water Di	sposal	
Name (Printed/Typed) Lana Nebeker Signature Date 11/09/2005 THIS SPACE FOR FEDERAL OR STATE OFFICE USE Approved by Conditions of approval, if any, are attached. Approval of this nonce does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. This PLANCE FOR Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department of pages of the United	Subject well had completic the well. A cement bond lo with 20/40 mesh sand. Per #3 (5447'-5461'); Stage #4 stages. Fracs were flowed drilled out and well was clean.	on procedures intiated in the g was run and a total of for forated intervals are as foll (4933'-4948').All perforation back through chokes. A se eaned to 5884'. Zones were	ir Green River eitervicows: Stage #1 (5767 ons, were 4 JSPF. Co ervice rig was moved e swab tested for san	als were perioral '-5775'); Stage a omposite flow-th over the well or d cleanup. A ne	#2 (566 3*-5 670') irough fr ac plug n 10-26- 200 5. B),(5546'-5553'); Stage s were used between ridge plugs were
Lana Nebeker Signature Date 11/09/2005 THIS SPACE FOR FEDERAL OR STATE OFFICE USE Approved by Conditions of approval, if any, are attached. Approval of this nonce does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. This is a Section 1001 and Title 4311 S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department of pages of the United	I hereby certify that the foregoing	is true and correct	Title			
Approved by Conditions of approval, if any, are attached. Approval of this nonce does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. This is a subject to any person knowingly and willfully to make to any department of the light	Name (Printed/Typed)	,)	Production C	lerk		
Approved by Conditions of approval, if any, are attached. Approval of this nonce does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. The New 1.5 C. Section 1001 and Title 43 11 S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department of approve the United	Signature	(/ / 2 / 2 / 2				
Approved by Conditions of approval, if any, are attached. Approval of this nonce does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. The New 1.5 C. Section 1001 and Title 43 11 S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department of approve the United	() () () () () () () () () ()	THIS SPACE FO	OR FEDERAL OR	STATE OFFI	CE USE	
Approved by Conditions of approval, if any, are attached. Approval of this nonce does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease Office Which would entitle the applicant to conduct operations thereon.					1	
Till 18 U.S.C. Service 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department of interest of the Linker.	Conditions of approval, if any, are atta	equitable title to those rights in the su	t warrant or		1 <u>D</u>	ate
	Tid- 18 U.S.C. Section 1001 and Title	43 U.S.C. Section 1212, make it a crit	me for any person knowingly	and willfully to make	to any department of	RECEIVED

(Instructions on reverse)

NOV 1 0 2005

FORM 3160-4 (July 1992)

SUBMIT IN DUPLICATE* FORM APPROVED OMB NO. 1004-0137

(See other instructions ons reverse side)

Expires: February 28, 1995

5. LEASE DESIGNATION AND SERIAL NO.

DEPARTMENT OF THE INTERIOR UTU-16540

WELL (COMPLE	ETION	OR RI	ECOM	PLETION	RE	PORT A	ND LOG*	(5. IF INDIAN, ALLOTTÉE 1	OR TRIBE NAME VA
a. TYPE OF WORK									-	7. UNIT AGREEMENT NA	
		OIL WELL	X	GAS WELL	DRY		Other			Sun	dance
b. TYPE OF WELL		WELL		** E.L.L			•			×	
		_	_	" г					[:	B. FARM OR LEASE NAM	E, WELL NO.
NEW X	WORK OVER	DEEPEN		PLUG BACK	DIFF RESVR.		Other			Federa	l 1-7-9-18
NAME OF OPERATOR									(O. WELL NO.	
		Nev	vfield E	xplorati	on Compan	y				43-04 0. FIELD AND POOL OR	7-35447
. ADDRESS AND TELEPI		401 17th	St. Sui	te 1000	Denver, Co	0.8	0202		['		Wile Flat
. LOCATION OF WEL									1	1. SEC., T., R., M., OR BL	
At Surface		660)' FNL &	660' FEL	(NE/NE) Sec.	7, T	9S, R18E			OR AREA	500 D405
At top prod. Interval repo	orted below								-	Sec. 7,	Г9S, R18E
At total danth				14. API NO.			DATE ISSUED		11	2. COUNTY OR PARISH	13. STATE
At total depth			:		047-35447	-		/28/04	["	Uintah	UT
	16. DATE T.D. R		17. DA	TE COMPL. (F	Ready to prod.)			F, RKB. RT. GR. ET		F0.40LKD	19. ELEV. CASINGHEAD
9/9/05		7/05			28/05	1	5031			5043' KB RY TOOLS	72 A D1 42 TVAOL 6
0. TOTAL DEPTH, MD &	TVD	21. PLUG BACI	K. T.D., MD	& TVD	22. IF MULTIF		UMPL	23. INTERVALS DRILLED BY	ROTAL	CT TOOLS	CABLE TOOLS
5950'			5884'					>		X	
4. PRODUCING INTERVA	AL(S), OF THIS C	OMPLETION	IOP. BOTT	OM, NAME (N	MD AND TVD)*						25. WAS DIRECTIONAL
				Green F	River 4933	3'-5	775'				SURVEY MADE
											No 27. WAS WELL CORED
6. TYPE ELECTRIC AND Oual Induction (other logs r Guard SF	un Compe	nsated	Density	/ Compens	ated	d Neutron. C	GR. Caliper.	Ceme	nt Bond Loa	No
23.	oddia, oi	, compo			G RECORD (Re						
CASING SIZE/G	RADE	WEIGHT.			'H SET (MD)		HOLE SIZE			ENTING RECORD	AMOUNT PULLED
8-5/8" - J		247	·		311 5928'		12-1/4" 7-7/8"			sx Class "G" cmt 425 sx 50/50 Poz	
5-1/2" - J	-၁၁	15.5) //		J340	<u> </u>	7-110	350 SX Premi	ne n and	420 SX 30/30 P02	
29.		LINF	R RECO	RD				30.	т	UBING RECORD	
SIZE	TOP (M (MD)	SACKS CEMEN	Γ*	SCREEN (MD)	SIZE		EPTH SET (MD)	PACKER SET (MD)
						_		2-7/8"		EOT @ 5811'	TA @ 5744'
	200 / C						32.	ACID SHOT	FDACTU	RE, CEMENT SQUE	
a. PERFORATION RECO INT	ORD (Interval, si ERVAL	ze and number)		ZE ·	SPF/NUMBE		32. DEPTH INTE			MOUNT AND KIND OF	
		767'-5775'		1"	4/32		5767'-	5775'	Frac v	v/ 39,426# 20/40 sa	and in 445 bbls fluid
(CP2&4) 55	546'-5553', 5	663'-5670'		3"	4/56		5546'-		Frac v	v/ 39,475# 20/40 sa	and in 439 bbls fluid
		447'-5461'		3"	4/56		5447'-				and in 494 bbls fluid
	(B1) 4	933'-4948'	.4	3"	4/60		4933'-	4948'	Frac w	/ 108,842# 20/40 s	and in 738 bbls fluid
										:	***************************************
									5 200	5	
								DEC	, , , , ,		
33.*					PROD	UCT	ION				
DATE FIRST PRODUCTIO	N	PRODUCTIO			s lift, pumpingsize a	nd typ	e of pump)			WELL ST	'ATUS (Producing or shut-in)
10/28/0		<u> </u>						unger Pump			RODUCING IGAS-OIL RATIO
DATE OF TEST	HOU	RS TESTED	CHOK	E SIZE	PROD'N. FOR TEST PERIOD	OIL	-BBLS.	GASMCF.	WATER		
30 day ave	e				>		29	6		32	207
LOW: TUBING PRESS.	CAS	ING PRESSURE		TATED UR RATE	OIL-BBL.		GASMCF.		WATER	BBL. OIL GRAVI	TY-API (CORR.)
			24-110	>							
34. DISPOSITION OF GAS	(Sold, used for fu	iel, vented, etc.)			L				1	EST WITNESSED BY	
			Sold	& Used	for Fuel						
35. LIST OF ATTACHMEN	VTS										
			17								
36. I hereby certify that	the foregoing a	nd attached ju	formation رسید مو	is complete a			ed from all availab	le records ulatory Spec	rialiet	DATE	12/1/2005
SIGNED //	<u>EC17,</u>	27-26	11/3/				rvegt	natory opec	ranst	D.VII	12/1/2003
Mandie	Crozier										317.

UNITED STATES

BUREAU OF LAND MANAGEMENT

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);

38. GEOLOGIC MARKERS

FORMATION	тор	воттом	DESCRIPTION, CONTENTS, ETC.		то	P
				NAME		TRUE
					MEAS. DEPTH	VERT. DEPT
			Well Name	Garden Gulch Mkr	3684'	
			Federal 1-7-9-18	Garden Gulch 1	3856'	
		-	· · · · · · · · · · · · · · · · · · ·	Garden Gulch 2	3973'	
				Point 3 Mkr	4230'	
				X Mkr	4461'	
				Y-Mkr	4496'	
				Douglas Creek Mkr	4628'	
				BiCarbonate Mkr	4866'	
				B Limestone Mkr	5002'	
				Castle Peak	5431'	
				Basal Carbonate	5848'	
				Total Depth (LOGGERS	5949'	
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8 1595 WYNKOOP STREET DENVER, CO 80202-1129 http://www.epa.gov/region8

APR 07 2009

Ref: 8P-W-GW

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Eric Sundberg Newfield Production Company 1001 Seventeenth Street, Suite 2000 Denver, CO 80202 Oil, Gas and

Re: Final Permit & Aquifer Exemption AOR Corrective Action Required EPA UIC Permit UT21088-07347

> Well: Federal 1-7-9-18 NENE Sec. 7-T9S-R18E Uintah County, Utah API No.: 43-047-35447

Dear Mr. Sundberg:

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Permit for the proposed Federal 1-7-9-18 injection well. A Statement of Basis that discusses the conditions and requirements of this EPA UIC Permit, is also included.

The Public Comment period for this Permit ended on ________. No comments on the Draft Permit were received during the Public Notice period; therefore the Effective Date for this EPA UIC Permit is the date of issuance. All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (CFR) and are regulations that are in effect as of the Effective Date of this Permit.

Please note that under the terms and conditions of this Final Permit you are authorized only to construct the proposed injection well. Prior to commencing injection, you first must fulfill all "Prior to Commencing Injection" requirements of the Final Permit, Part II Section C.1, and obtain written Authorization to Inject from the EPA. It is your responsibility to be familiar with and to comply with all provisions of your Final Permit. The EPA forms referenced in the permit are available at http://www.epa.gov/safewater/uic/reportingforms.html. Guidance documents for Cement Bond Logging, Radioactive Tracer testing, Step Rate testing, Mechanical Integrity demonstration, Procedure in the Event of a Mechanical Integrity Loss, and other UIC guidances, are available at http://www.epa.gov/region8/water/uic/ deep_injection.html. Upon request, hard copies of the EPA forms and guidances can be provided.



This EPA UIC Permit is issued for the operating life of the well unless terminated (Part III, Section B). The EPA may review this Permit at least every five (5) years to determine whether any action is warranted pursuant to 40 CFR § 144.36(a).

If you have any questions on the enclosed Final Permit or Statement of Basis, please call Emmett Schmitz of my staff at (303) 312-6174, or toll-free at (800) 227-8917, ext. 312-6174.

Sincerely,

10 ← Eddie A. Sierra

Acting Assistant Regional Administrator

Office of Partnerships and Regulatory Assistance

enclosure:

Final UIC Permit Statement of Basis Aquifer Exemption

cc:

Letter:

Uintah & Ouray Business Committee, Ute Indian Tribe: Curtis Cesspooch, Chairman Irene Cuch, Vice-Chairwoman Frances Poowegup, Councilwoman Ronald Groves, Councilman Phillip Chimburas, Councilman Steven Cesspooch, Councilman

Daniel Picard, Superintendent Uintah & Ouray Indian Agency U.S. Bureau of Indian Affairs

cc: all enclosures:

Michael Guinn District Manager Newfield Production Company Myton, Utah Larry Love Director Energy & Minerals Dept. Ute Indian Tribe

Ferron Secakuku Director, Natural Resources Ute Indian Tribe

Gilbert Hunt Associate Director State of Utah - Natural Resources

Fluid Minerals Engineering Dept. U.S. Bureau of Land Management Vernal, Utah

\$EPA

UNDERGROUND INJECTION CONTROL PROGRAM PERMIT

PREPARED: April 2009

Permit No. UT21088-07347

Class II Enhanced Oil Recovery Injection Well

Federal 1-7-9-18 Uintah County, UT

Issued To

Newfield Production Company

1001 Seventeenth Street, Suite 2000 Denver, CO 80202

PART	I. AUTHORIZATION TO CONSTRUCT AND OPERATE	2
PART	II. SPECIFIC PERMIT CONDITIONS	3
S	ection A. WELL CONSTRUCTION REQUIREMENTS	3
	1. Casing and Cement	3
	2. Injection Tubing and Packer	3
	3. Sampling and Monitoring Devices	3
	Well Logging and Testing	4
	5. Postponement of Construction or Conversion	4
	6. Workovers and Alterations	4
S	ection B. MECHANICAL INTEGRITY	4
	Demonstration of Mechanical Integrity (MI)	5
	2. Mechanical Integrity Test Methods and Criteria	5
•	3. Notification Prior to Testing	5
	4. Loss of Mechanical Integrity	5
S	Section C. WELL OPERATION	6
	Requirements Prior to Commencing Injection	6
	2. Injection Interval	6
	3. Injection Pressure Limitation	6
	4. Injection Volume Limitation	7
	5. Injection Fluid Limitation	7
	6. Tubing-Casing Annulus (TCA)	7
	Section D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS	7
	1. Monitoring Parameters, Frequency, Records and Reports	7
	2. Monitoring Methods	7
	3. Records Retention	. 8
	4. Annual Reports	8
S	Section E. PLUGGING AND ABANDONMENT	8
	1. Notification of Well Abandonment, Conversion or Closure	9
	2. Well Plugging Requirements	9
	3. Approved Plugging and Abandonment Plan	9
	4. Forty Five (45) Day Notice of Plugging and Abandonment	9
	5. Plugging and Abandonment Report	9
	6 Inactivo Male	9

PART III. CONDITIONS APPLICABLE TO ALL PERMITS	11
Section A. EFFECT OF PERMIT	11
Section B. CHANGES TO PERMIT CONDITIONS	11
1. Modification, Reissuance, or Termination	11
2. Conversions	11
3. Transfer of Permit	11
4. Permittee Change of Address	12
Construction Changes, Workovers, Logging and Testing Data	12
Section C. SEVERABILITY	12
Section D. CONFIDENTIALITY	12
Section E. GENERAL PERMIT REQUIREMENTS	12
1. Duty to Comply	12
2. Duty to Reapply	13
Need to Halt or Reduce Activity Not a Defense	13
4. Duty to Mitigate	. 13
5. Proper Operation and Maintenance	13
6. Permit Actions	13
7. Property Rights	13 13
8. Duty to Provide Information	13
Inspection and Entry Signatory Requirements	14
11. Reporting requirements	14
Section F. FINANCIAL RESPONSIBILITY	15
Method of Providing Financial Responsibility	15
2. Insolvency	15
APPENDIX A - WELL CONSTRUCTION REQUIREMENTS	A-1
APPENDIX B - LOGGING AND TESTING REQUIREMENTS	B-1
APPENDIX C - OPERATING REQUIREMENTS	C-1
APPENDIX D - MONITORING AND REPORTING REQUIREMENTS	D-1
APPENDIX E - PLUGGING AND ABANDONMENT REQUIREMENTS	E-1
ADDENDIVE CODDECTIVE ACTION DECLIDEMENTS	F_1

Part I. **AUTHORIZATION TO CONSTRUCT AND OPERATE**

Under the authority of the Safe Drinking Water Act and Underground Injection Control (UIC) Program regulations of the U. S. Environmental Protection Agency (EPA) codified at Title 40 of the Code of Federal Regulations (40 CFR) Parts 2, 124, 144, 146, and 147, and according to the terms of this Permit.

> Newfield Production Company 1001 Seventeenth Street, Suite 2000 Denver, CO 80202

is authorized to construct and to operate the following Class II injection well or wells:

Federal 1-7-9-18 660'FNL; 660'FEL., NENE S7, T9S, R18E Uintah County, UT

EPA regulates the injection of fluids into injection wells so that injection does not endanger underground sources of drinking water (USDWs). EPA UIC Permit conditions are based on authorities set forth at 40 CFR Parts 144 and 146, and address potential impacts to USDWs.

Under 40 CFR Part 144, Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General permit conditions for which the content is mandatory and not subject to site-specific differences are not discussed in this document. Issuance of this Permit does not convey any property rights of any sort or any exclusive privilege, nor does it authorize injury to persons or property or invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. (40 CFR §144.35) An EPA UIC Permit may be issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR §§144.39, 144.40 and 144.41, and may be reviewed at least once every five (5) years to determine if action is required under 40 CFR §144.36(a).

This Permit is issued for the life of the well(s) unless modified, revoked and reissued, or terminated under 40 CFR 144.39 or 144.40. This EPA Permit may be adopted, modified, revoked and reissued, or terminated if primary enforcement authority for a UIC Program is delegated to an Indian Tribe or State. Upon the effective date of delegation, reports, notifications, questions and other correspondence should be directed to the Indian Tribe or State Director.

Issue Date:

Effective Date

PERMIT

Eddie A. Sierra

Acting Assistant Regional Administrator*

Office of Partnerships and Regulatory Assistance

*NOTE: The person holding this title is referred to as the "Director" throughout this Permit.

PART II. SPECIFIC PERMIT CONDITIONS

Section A. WELL CONSTRUCTION REQUIREMENTS

These requirements represent the approved minimum construction standards for well casing and cement, injection tubing, and packer.

Details of the approved well construction plan are incorporated into this Permit as APPENDIX A. Changes to the approved plan that may occur during construction must be approved by the Director prior to being physically incorporated.

1. Casing and Cement.

The well or wells shall be cased and cemented to prevent the movement of fluids into or between underground sources of drinking water. The well casing and cement shall be designed for the life expectancy of the well and of the grade and size shown in APPENDIX A. Remedial cementing may be required if shown to be inadequate by cement bond log or other attempted demonstration of Part II (External) mechanical integrity.

2. Injection Tubing and Packer.

Injection tubing is required, and shall be run and set with a packer at or below the depth indicated in APPENDIX A. The packer setting depth may be changed provided it remains below the depth indicated in APPENDIX A and the Permittee provides notice and obtains the Director's approval for the change.

3. Sampling and Monitoring Devices.

The Permittee shall install and maintain in good operating condition:

- (a) a "tap" at a conveniently accessible location on the injection flow line between the pump house or storage tanks and the injection well, isolated by shut-off valves, for collection of representative samples of the injected fluid; and
- (b) one-half (1/2) inch female iron pipe fitting, isolated by shut-off valves and located at the wellhead at a conveniently accessible location, for the attachment of a pressure gauge capable of monitoring pressures ranging from normal operating pressures up to the Maximum Allowable Injection Pressure specified in APPENDIX C:
 - (i) on the injection tubing; and
 - (ii) on the tubing-casing annulus (TCA); and
- (c) a pressure actuated shut-off device attached to the injection flow line set to shut-off the injection pump when or before the Maximum Allowable Injection Pressure (MAIP) specified in APPENDIX C is reached at the wellhead; and
- (d) a non-resettable cumulative volume recorder attached to the injection line.

4. Well Logging and Testing

Well logging and testing requirements are found in APPENDIX B. The Permittee shall ensure the log and test requirements are performed within the time frames specified in APPENDIX B. Well logs and tests shall be performed according to current EPA-approved procedures. Well log and test results shall be submitted to the Director within sixty (60) days of completion of the logging or testing activity, and shall include a report describing the methods used during logging or testing and an interpretation of the test or log results.

5. Postponement of Construction or Conversion

The Permittee shall complete well construction within one year of the Effective Date of the Permit, or in the case of an Area Permit within one year of Authorization of the additional well. Authorization to construct and operate shall expire if the well has not been constructed within one year of the Effective Date of the Permit or Authorization and the Permit may be terminated under 40 CFR 144.40, unless the Permittee has notified the Director and requested an extension prior to expiration. Notification shall be in writing, and shall state the reasons for the delay and provide an estimated completion date. Once Authorization has expired under this part, the complete permit process including opportunity for public comment may be required before Authorization to construct and operate may be reissued.

6. Workovers and Alterations

Workovers and alterations shall meet all conditions of the Permit. Prior to beginning any addition or physical alteration to an injection well that may significantly affect the tubing, packer or casing, the Permittee shall give advance notice to the Director and obtain the Director's approval. The Permittee shall record all changes to well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workover, logging, or test data to EPA within sixty (60) days of completion of the activity.

A successful demonstration of Part I MI is required following the completion of any well workover or alteration which affects the casing, tubing, or packer. Injection operations shall not be resumed until the well has successfully demonstrated mechanical integrity and the Director has provided written approval to resume injection.

Section B. MECHANICAL INTEGRITY

The Permittee is required to ensure each injection well maintains mechanical integrity at all times. The Director, by written notice, may require the Permittee to comply with a schedule describing when mechanical integrity demonstrations shall be made.

An injection well has mechanical integrity if:

- (a) There is no significant leak in the casing, tubing, or packer (Part I); and
- (b) There is no significant fluid movement into an underground source of drinking water through vertical channels adjacent to the injection well bore (Part II).

1. Demonstration of Mechanical Integrity (MI).

The operator shall demonstrate MI prior to commencing injection and periodically thereafter. Well-specific conditions dictate the methods and the frequency for demonstrating MI and are discussed in the Statement of Basis. The logs and tests are designed to demonstrate both internal (Part I) and external (Part II) MI as described above. The conditions present at this well site warrant the methods and frequency required in Appendix B of this Permit.

In addition to these regularly scheduled demonstrations of MI, the operator shall demonstrate internal (Part I) MI after any workover which affects the tubing, packer or casing.

The Director may require additional or alternative tests if the results presented by the operator are not satisfactory to the Director to demonstrate there is no movement of fluid into or between USDWs resulting from injection activity. Results of MI tests shall be submitted to the Director as soon as possible but no later than sixty (60) days after the test is complete.

2. Mechanical Integrity Test Methods and Criteria

EPA-approved methods shall be used to demonstrate mechanical integrity. Ground Water Section Guidance No. 34 "Cement Bond Logging Techniques and Interpretation", Ground Water Section Guidance No. 37, "Demonstrating Part II (External) Mechanical Integrity for a Class II injection well permit", and Ground Water Section Guidance No. 39, "Pressure Testing Injection Wells for Part I (Internal) Mechanical Integrity" are available from EPA and will be provided upon request.

The Director may stipulate specific test methods and criteria best suited for a specific well construction and injection operation.

3. Notification Prior to Testing.

The Permittee shall notify the Director at least 30 days prior to any scheduled mechanical integrity test. The Director may allow a shorter notification period if it would be sufficient to enable EPA to witness the mechanical integrity test. Notification may be in the form of a yearly or quarterly schedule of planned mechanical integrity tests, or it may be on an individual basis.

4. Loss of Mechanical Integrity.

If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity becomes evident during operation (such as presence of pressure in the TCA, water flowing at the surface, etc.), the Permittee shall notify the Director within 24 hours (see Part III Section E Paragraph 11(e) of this Permit) and the well shall be shut-in within 48 hours unless the Director requires immediate shut-in.

Within five days, the Permittee shall submit a follow-up written report that documents test results, repairs undertaken or a proposed remedial action plan.

Injection operations shall not be resumed until after the well has successfully been repaired and demonstrated mechanical integrity, and the Director has provided approval to resume injection.

Section C. WELL OPERATION

INJECTION BETWEEN THE OUTERMOST CASING PROTECTING UNDERGROUND SOURCES OF DRINKING WATER AND THE WELL BORE IS PROHIBITED.

Injection is approved under the following conditions:

1. Requirements Prior to Commencing Injection.

Well injection, including for new wells authorized by an Area Permit under 40 CFR 144.33 (c), may commence only after all well construction and pre-injection requirements herein have been met and approved. The Permittee may not commence injection until construction is complete, and

- (a) The Permittee has submitted to the Director a notice of completion of construction and a completed EPA Form 7520-10 or 7520-12; all applicable logging and testing requirements of this Permit (see APPENDIX B) have been fulfilled and the records submitted to the Director; mechanical integrity pursuant to 40 CFR 146.8 and Part II Section B of this Permit has been demonstrated; and
 - (i) The Director has inspected or otherwise reviewed the new injection well and finds it is in compliance with the conditions of the Permit; or
 - (ii) The Permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within 13 days of the date of the notice in Paragraph 1a, in which case prior inspection or review is waived and the Permittee may commence injection.

2. Injection Interval.

Injection is permitted only within the approved injection interval, listed in APPENDIX C. Additional individual injection perforations may be added provided that they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6.

3. Injection Pressure Limitation

- (a) The permitted Maximum Allowable Injection Pressure (MAIP), measured at the wellhead, is found in APPENDIX C. Injection pressure shall not exceed the amount the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs. In no case shall injection pressure cause the movement of injection or formation fluids into a USDW.
- (b) The Permittee may request a change of the MAIP, or the MAIP may be increased or decreased by the Director in order to ensure that the requirements in Paragraph (a) above are fulfilled. The Permitee may be required to conduct a step rate injection test or other suitable test to provide information for determining the fracture pressure of the injection zone. Change of the permitted MAIP by the Director shall be by modification of this Permit and APPENDIX C.

4. Injection Volume Limitation.

Injection volume is limited to the total volume specified in APPENDIX C.

5. Injection Fluid Limitation.

Injected fluids are limited to those identified in 40 CFR 144.6(b)(2) as fluids used for enhanced recovery of oil or natural gas, including those which are brought to the surface in connection with conventional oil or natural gas production that may be commingled with waste waters from gas plants which are an integral part of production operations unless those waters are classified as a hazardous waste at the time of injection, pursuant to 40 CFR 144.6(b). Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are NOT approved for injection. This well is NOT approved for commercial brine injection, industrial waste fluid disposal or injection of hazardous waste as defined by CFR 40 Part 261. The Permittee shall provide a listing of the sources of injected fluids in accordance with the reporting requirements in Part II Section D Paragraph 4 and APPENDIX D of this Permit.

6. Tubing-Casing Annulus (TCA)

The tubing-casing annulus (TCA) shall be filled with water treated with a corrosion inhibitor, or other fluid approved by the Director. The TCA valve shall remain closed during normal operating conditions and the TCA pressure shall be maintained at zero (0) psi.

If TCA pressure cannot be maintained at zero (0) psi, the Permittee shall follow the procedures in Ground Water Section Guidance No. 35 "Procedures to follow when excessive annular pressure is observed on a well."

Section D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

1. Monitoring Parameters, Frequency, Records and Reports.

Monitoring parameters are specified in APPENDIX D. Pressure monitoring recordings shall be taken at the wellhead. The listed parameters are to be monitored, recorded and reported at the frequency indicated in APPENDIX D even during periods when the well is not operating.

Monitoring records must include:

- (a) the date, time, exact place and the results of the observation, sampling, measurement, or analysis, and;
- (b) the name of the individual(s) who performed the observation, sampling, measurement, or analysis, and;
- (c) the analytical techniques or methods used for analysis.

2. Monitoring Methods.

(a) Monitoring observations, measurements, samples, etc. taken for the purpose of complying with these requirements shall be representative of the activity or condition being monitored.

- (b) Methods used to monitor the nature of the injected fluids must comply with analytical methods cited and described in Table 1 of 40 CFR 136.3 or Appendix III of 40 CFR 261, or by other methods that have been approved in writing by the Director.
- (c) Injection pressure, annulus pressure, injection rate, and cumulative injected volumes shall be observed and recorded at the wellhead under normal operating conditions, and all parameters shall be observed simultaneously to provide a clear depiction of well operation.
- (d) Pressures are to be measured in pounds per square inch (psi).
- (e) Fluid volumes are to be measured in standard oil field barrels (bbl).
- (f) Fluid rates are to be measured in barrels per day (bbl/day).

3. Records Retention.

- (a) Records of calibration and maintenance, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained for a period of AT LEAST THREE (3) YEARS from the date of the sample, measurement, report, or application. This period may be extended anytime prior to its expiration by request of the Director.
- (b) Records of the nature and composition of all injected fluids must be retained until three (3) years after the completion of any plugging and abandonment (P&A) procedures specified under 40 CFR 144.52(a)(6) or under Part 146 Subpart G, as appropriate. The Director may require the Permittee to deliver the records to the Director at the conclusion of the retention period. The Permittee shall continue to retain the records after the three (3) year retention period unless the Permittee delivers the records to the Director or obtains written approval from the Director to discard the records.

4. Annual Reports.

Whether the well is operating or not, the Permittee shall submit an Annual Report to the Director that summarizes the results of the monitoring required by Part II Section D and APPENDIX D.

The first Annual Report shall cover the period from the effective date of the Permit through December 31 of that year. Subsequent Annual Reports shall cover the period from January 1 through December 31 of the reporting year. Annual Reports shall be submitted by February 15 of the year following data collection. EPA Form 7520-11 may be copied and shall be used to submit the Annual Report, however, the monitoring requirements specified in this Permit are mandatory even if EPA Form 7520-11 indicates otherwise.

Section E. PLUGGING AND ABANDONMENT

1. Notification of Well Abandonment, Conversion or Closure.

The Permittee shall notify the Director in writing at least forty-five (45) days prior to: 1) plugging and abandoning an injection well, 2) converting to a non-injection well, and 3) in the case of an Area Permit, before closure of the project.

2. Well Plugging Requirements

Prior to abandonment, the injection well shall be plugged with cement in a manner which isolates the injection zone and prevents the movement of fluids into or between underground sources of drinking water, and in accordance with 40 CFR 146.10 and other applicable Federal, State or local law or regulations. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.6 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. Prior to placement of the cement plug(s) the well shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method prescribed by the Director.

3. Approved Plugging and Abandonment Plan.

The approved plugging and abandonment plan is incorporated into this Permit as APPENDIX E. Changes to the approved plugging and abandonment plan must be approved by the Director prior to beginning plugging operations. The Director also may require revision of the approved plugging and abandonment plan at any time prior to plugging the well.

4. Forty Five (45) Day Notice of Plugging and Abandonment.

The Permittee shall notify the Director at least forty-five (45) days prior to plugging and abandoning a well and provide notice of any anticipated change to the approved plugging and abanonment plan.

5. Plugging and Abandonment Report.

Within sixty (60) days after plugging a well, the Permittee shall submit a report (EPA Form 7520-13) to the Director. The plugging report shall be certified as accurate by the person who performed the plugging operation. Such report shall consist of either:

- (a) A statement that the well was plugged in accordance with the approved plugging and abandonment plan; or
- (b) Where actual plugging differed from the approved plugging and abandonment plan, an updated version of the plan, on the form supplied by the Director, specifying the differences.

6. Inactive Wells.

After any period of two years during which there is no injection the Permittee shall plug and abandon the well in accordance with Part II Section E Paragraph 2 of this Permit unless the Permittee:

- (a) Provides written notice to the Director;
- (b) Describes the actions or procedures the Permittee will take to ensure that the well will not endanger USDWs during the period of inactivity. These actions and procedures shall include compliance with mechanical integrity demonstration, Financial Responsibility and all other permit requirements designed to protect USDWs; and
- (c) Receives written notice by the Director temporarily waiving plugging and abandonment requirements.

PART III. CONDITIONS APPLICABLE TO ALL PERMITS

Section A. EFFECT OF PERMIT

The Permittee is allowed to engage in underground injection in accordance with the conditions of this Permit. The Permittee shall not construct, operate, maintain, convert, plug, abandon, or conduct any other activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR 142 or may otherwise adversely affect the health of persons. Any underground injection activity not authorized by this Permit or by rule is prohibited. Issuance of this Permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of any other Federal, State or local law or regulations. Compliance with the terms of this Permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment, for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the Permittee's independent obligation to comply with all UIC regulations. Nothing in this Permit relieves the Permittee of any duties under applicable regulations.

Section B. CHANGES TO PERMIT CONDITIONS

1. Modification, Reissuance, or Termination.

The Director may, for cause or upon a request from the Permittee, modify, revoke and reissue, or terminate this Permit in accordance with 40 CFR 124.5, 144.12, 144.39, and 144.40. Also, this Permit is subject to minor modification for causes as specified in 40 CFR 144.41. The filing of a request for modification, revocation and reissuance, termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay the applicability or enforceability of any condition of this Permit.

2. Conversions.

The Director may, for cause or upon a written request from the Permittee, allow conversion of the well from a Class II injection well to a non-Class II well. Conversion may not proceed until the Permittee receives written approval from the Director. Conditions of such conversion may include but are not limited to, approval of the proposed well rework, follow up demonstration of mechanical integrity, well-specific monitoring and reporting following the conversion, and demonstration of practical use of the converted configuration.

3. Transfer of Permit.

Under 40 CFR 144.38, this Permit is transferable provided the current Permittee notifies the Director at least thirty (30) days in advance of the proposed transfer date (EPA Form 7520-7) and provides a written agreement between the existing and new Permittees containing a specific date for transfer of Permit responsibility, coverage and liability between them. The notice shall adequately demonstrate that the financial responsibility requirements of 40 CFR 144.52(a)(7) will be met by the new Permittee. The Director may require modification or revocation and reissuance of the Permit to change the name of the Permittee and incorporate such other requirements as may be necessary under the Safe Drinking Water Act; in some cases, modification or revocation and reissuance is mandatory.

4. Permittee Change of Address.

Upon the Permittee's change of address, or whenever the operator changes the address where monitoring records are kept, the Permittee must provide written notice to the Director within 30 days.

5. Construction Changes, Workovers, Logging and Testing Data

The Permittee shall give advance notice to the Director, and shall obtain the Director's written approval prior to any physical alterations or additions to the permitted facility. Alterations or workovers shall meet all conditions as set forth in this permit. The Permittee shall record any changes to the well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workovers, logging, or test data to EPA within sixty (60) days of completion of the activity.

Following the completion of any well workovers or alterations which affect the casing, tubing, or packer, a successful demonstration of mechanical integrity (Part III, Section F of this Permit) shall be made, and written authorization from the Director received, prior to resuming injection activities.

Section C. SEVERABILITY

The Provisions of this Permit are severable, and if any provision of this Permit or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit shall not be affected thereby.

Section D. CONFIDENTIALITY

In accordance with 40 CFR Part 2 and 40 CFR 144.5, information submitted to EPA pursuant to this Permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the Permittee, and
- information which deals with the existence, absence or level of contaminants in drinking water.

Section E. GENERAL PERMIT REQUIREMENTS

1. Duty to Comply.

The Permittee must comply with all conditions of this Permit. Any noncompliance constitutes a violation of the Safe Drinking Water Act (SDWA) and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application; except that the Permittee need not comply with the provisions of this Permit to the extent and for the duration such noncompliance is authorized in an emergency permit under 40 CFR 144.34. All violations of the SDWA may subject the Permittee to penalties and/or criminal prosecution as specified in Section 1423 of the SDWA.

2. Duty to Reapply.

If the Permittee wishes to continue an activity regulated by this Permit after the expiration date of this Permit, under 40 CFR 144.37 the Permittee must apply for a new permit prior to the expiration date.

3. Need to Halt or Reduce Activity Not a Defense.

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

4. Duty to Mitigate.

The Permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Permit.

5. Proper Operation and Maintenance.

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Permit.

6. Permit Actions.

This Permit may be modified, revoked and reissued or teminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

7. Property Rights.

This Permit does not convey any property rights of any sort, or any exclusive privilege.

8. Duty to Provide Information.

The Permittee shall furnish to the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit. The Permittee is required to submit any information required by this Permit or by the Director to the mailing address designated in writing by the Director.

9. Inspection and Entry.

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

(a) Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;

- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit:
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and,
- (d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA, any substances or parameters at any location.

10. Signatory Requirements.

All applications, reports or other information submitted to the Director shall be signed and certified according to 40 CFR 144.32. This section explains the requirements for persons duly authorized to sign documents, and provides wording for required certification.

11. Reporting Requirements.

- (a) Planned changes. The Permittee shall give notice to the Director as soon as possible of any planned changes, physical alterations or additions to the permitted facility, and prior to commencing such changes.
- (b) Anticipated noncompliance. The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (c) Monitoring Reports. Monitoring results shall be reported at the intervals specified in this Permit.
- (d) Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 30 days following each schedule date.
- (e) Twenty-four hour reporting. The Permittee shall report to the Director any noncompliance which may endanger human health or the environment, including:
 - (i) Any monitoring or other information which indicates that any contaminant may cause endangerment to a USDW; or
 - (ii) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDWs.

Information shall be provided, either directly or by leaving a message, within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning (800) 227-8917 and requesting EPA Region VIII UIC Program Compliance and Technical Enforcement Director, or by contacting the EPA Region VIII Emergency Operations Center at (303) 293-1788.

In addition, a follow up written report shall be provided to the Director within five (5) days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

- (f) Oil Spill and Chemical Release Reporting: The Permittee shall comply with all reporting requirements related to the occurence of oil spills and chemical releases by contacting the National Response Center (NRC) at (800) 424-8802, (202) 267-2675, or through the NRC website http://www.nrc.uscg.mil/index.htm.
- (g) Other Noncompliance. The Permittee shall report all instances of noncompliance not reported under paragraphs Part III, Section E Paragraph 11(b) or Section E, Paragraph 11(e) at the time the monitoring reports are submitted. The reports shall contain the information listed in Paragraph 11(e) of this Section.
- (h) Other information. Where the Permittee becomes aware that it failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the Permittee shall promptly submit such facts or information to the Director.

Section F. FINANCIAL RESPONSIBILITY

1. Method of Providing Financial Responsibility.

The Permittee shall maintain continuous compliance with the requirement to maintain financial responsibility and resources to close, plug, and abandon the underground injection well(s). No substitution of a demonstration of financial responsibility shall become effective until the Permittee receives written notification from the Director that the alternative demonstration of financial responsibility is acceptable. The Director may, on a periodic basis, require the holder of a permit to revise the estimate of the resources needed to plug and abandon the well to reflect changes in such costs and may require the Permittee to provide a revised demonstration of financial responsibility.

2. Insolvency.

In the event of:

- (a) the bankruptcy of the trustee or issuing institution of the financial mechanism; or
- (b) suspension or revocation of the authority of the trustee institution to act as trustee; or

(c) the institution issuing the financial mechanism losing its authority to issue such an instrument

the Permittee must notify the Director in writing, within ten (10) business days, and the Permittee must establish other financial assurance or liability coverage acceptable to the Director within sixty (60) days after any event specified in (a), (b), or (c) above.

The Permittee must also notify the Director by certified mail of the commencement of voluntary or involuntary proceedings under Title 11 (Bankruptcy), U.S. Code naming the owner or operator as debtor, within ten (10) business days after the commencement of the proceeding. A guarantor, if named as debtor of a corporate guarantee, must make such a notification as required under the terms of the guarantee.

APPENDIX A

WELL CONSTRUCTION REQUIREMENTS

See diagram.

The Federal No. 1-7-9-18 was drilled to a total depth of 5,950 feet (KB) in the Basal Carbonate Member of the Green River Formation.

Surface casing (8-5/8 inch) was set at a depth of 311 feet in a 12-1/4 inch hole using 160 sacks of Class "G" cement which was circulated to the surface.

Production casing (5-1/2 inch) was set at a depth of 5,928 feet (KB) in a 7-7/8 inch hole with 350 sacks of Premium Lite II and 425 sacks of 50/50 poz mix. This well construction is considered adequate to protect USDWs.

The EPA calculates the top of cement as 927 feet from the surface. The Cement Bond Log (CBL) identifies top of cement at 80 feet. CBL analysis does identify adequate 80% bond index cement bond across the Confining Zone "A".

The schematic diagram shows enhanced recovery injection perforations in the Douglas Creek Member of the Green River Formation. Additional perforations may be added at a later time between the depths of 3,688 feet and the top of the Wasatch Formation (Estimated to be 5,973 feet) provided the operator first notifies the Director and later submits an updated well completion report (EPA Form 7520-12) and schematic diagram.

The packer will be set no higher than 100 feet above the top perforation.

UT 21088-07347 Federal 1-7-9-18

Spud Date: 9-9-05

Put on Production: 10-28-05

NE/NE Section 7-T9S-R18E Uintah Co, Utah API #43-047-35447; Lease #UTU-16540

GL: 5031' KB: 5043'

Proposed Injection Wellbore Diagram

Initial Production: BOPD,

MCFD, BWPD

GL: 5031' KB: 5043'		Wellbore Di	agram	FD4.0.10D	
	·····			FRAC JOB	D., (D
SURFACE CASING B256 USDWs 4	281'			10-25-05 5767-5775	Frac CPS, sands as follows: 39426# 20/40 sand in 445 bbls Lightning 17 frac fluid. Treated @ avg press of 1840 psi w/avg rate of 25.1 BPM. 1SIP 2080 psi. Calc flush: 5765 gal. Actual flush: 5796 gal.
CSG SIZE: 8-5/8" GRADE: J-55	•	4	3/1	10-25-05 5546-5670	Frac CP4, CP2 sands as follows: 39475# 20/40 sand in 439 bbls Lightning 17
WEIGHT: 24# LENGTH: 7 jts. (300.24')	927"				frac fluid. Treated @ avg press of 1378 psi w/avg rate of 25.1 BPM. ISIP 1450 psi. Calc flush: 5544 gal. Actual flush: 5586 gal.
DEPTH LANDED: 311.09' KB				10-25-05 5447-5461*	Frac CP.5 sands as follows: 60897# 20/40 sand in 494 bbls Lightning 17
HOLE SIZE: 12-1/4" CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to sur					frac fluid. Treated @ avg press of 1343 psi w/avg rate of 25.1 BPM. ISIP 1700 psi. Cale flush: 5445 gal. Actual flush: 5460 gal.
PRODUCTION CASING TEEN RIVER	1334			10-25-05 4933-4948'	Frac B1 sands as follows: 108842# 20/40 sand in 738 bbls Lightning 1' frac fluid. Treated @ avg pres of 1628 w/avj
CSG SIZE: 5-1/2" GRADE: J-55			2860 7		rate of 25.2 BPM, ISIP 1950 psi, Calc flush: 4931 gal. Actual flush: 4830 gal.
WEIGHT: 15.5#			2897- 2	1913'Mehrg.	my Banch
LENGTH: 140 jts. (5914.87') DEPTH LANDED: 5928.12' KB			7/	3688 Gn,	C = 7
HOLE SIZE: 7-7/8"	4 Dog		2634-	Gardon Gul	LINNS LONG
CEMENT DATA: 350 sxs Prem. Lite II mixed & 425 sxs 50/5 CEMENT TOP AT: 80'			3000	Graff Soft Graf	ir ii lemper
CEMENT TOP AT: 80° Bond 3642-	4894				
TUBING					2 0
- SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5# NO. OF JOINTS: 181 jts (5731.64')			4630 1	Douglas Ci	reol.
TUBING ANCHOR: 5743.64' KB			D 1 - 0 41000		
NO. OF JOINTS: 1 jts (30.72')			Packer @ 4898'		
SEATING NIPPLE: 2-7/8" (1.10')			4933-4948		
SN LANDED AT: 5777.16' KB					
NO. OF JOINTS: 1 jts (32.52')					
TOTAL STRING LENGTH: BOT @ 5811.23' KB					•
				•	PERFORATION RECORD
		4	5447-5461'		10-19-05 5767-5775 4 JSPF 32 holes 10-25-05 5663-5670 4 JSPF 28 holes
				•	10-25-05 5546-5553' 4 JSPF 28 holes
		*	5546-5553		10-25-05 5447-5461' 4 JSPF 56 holes 10-25-05 4933-4948' 4 JSPF 60 holes
					10-25-05 4933-4948' 4 JSPF 60 holes
			5663-5670		
		*	5767-5775		
				1	
NEWFIELD			5848	Biszi Ca	bonata
			PBTD @ 5884	Ve12	<i>"</i>
Federal 1-7-9-18		И	SHOE @ 5928		
660' FNL & 660' FEL			TD @ 5950		

TD@5950.

APPENDIX B

LOGGING AND TESTING REQUIREMENTS

Logs.

Logs will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well logging required as a condition of this permit.

NO LOGGING REQUIREMENTS

Tests.

Tests will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well test required as a condition of this permit.

TYPE OF TEST	DATE DUE
Standard Annulus Pressure	Prior to receiving authorization to inject and at least on test within a five (5) year period following the last successful test.
Pore Pressure	Prior to receiving authorization to inject.

APPENDIX C

OPERATING REQUIREMENTS

MAXIMUM ALLOWABLE INJECTION PRESSURE:

Maximum Allowable Injection Pressure (MAIP) as measured at the surface shall not exceed the pressure(s) listed below.

	MAXIMUM ALLOWED INJECTION PRESSURE (psi)
WELL NAME	ZONE 1 (Upper)
Federal 1-7-9-18	1,235

INJECTION INTERVAL(S):

Injection is permitted only within the approved injection interval listed below. Injection perforations may be altered provided they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6. Specific injection perforations can be found in Appendix A.

/ELL NAME: Federal 1-7-9-18	APPROVED INJECTION		FRACTURE
	INTERV	AL (KB, ft)	GRADIENT
FORMATION NAME	ТОР	BOTTOM	(psi/ft)
Green River Formation: Garden Gulch-Douglas Creek-Basal Carbonate Members	3,688.00	- 5,973.00	0.690

ANNULUS PRESSURE:

The annulus pressure shall be maintained at zero (0) psi as measured at the wellhead. If this pressure cannot be maintained, the Permittee shall follow the procedures listed under Part II, Section C. 6. of this permit.

MAXIMUM INJECTION VOLUME:

•		
/ELL NAME: Federal 1-7-9-18		
MAXIMUM VOLUME LIMIT (bbls)		

APPENDIX D

MONITORING AND REPORTING PARAMETERS

This is a listing of the parameters required to be observed, recorded, and reported. Refer to the permit Part II, Section D, for detailed requirements for observing, recording, and reporting these parameters.

	Injection pressure (psig)	
OBSERVE AND RECORD	Annulus pressure(s) (psig)	
	Injection rate (bbl/day)	
	Fluid volume injected since the well began injecting (bbls)	

	ANNUALLY
	Injected fluid total dissolved solids (mg/l)
ANALYZE	Injected fluid specific gravity
	Injected fluid specific conductivity
	Injected fluid pH

	ANNUALLY
REPORT	Each month's maximum and averaged injection pressures (psig)
	Each month's maximum and minimum annulus pressure(s) (psig)
	Each month's injected volume (bbl)
	Fluid volume injected since the well began injecting (bbl)
	Written results of annual injected fluid analysis
	Sources of all fluids injected during the year

In addition to these items, additional Logging and Testing results may be required periodically. For a list of those items and their due dates, please refer to APPENDIX B - LOGGING AND TESTING REQUIREMENTS.

APPENDIX E

PLUGGING AND ABANDONMENT REQUIREMENTS

See diagram.

The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs and in accordance with other applicable Federal, State or local law or regulation. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs. However, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. Within sixty (60) days after plugging, the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

PLUG NO. 1: Seal Injection Zone: Set a cast iron bridge plug (CIBP) no more than fifty (50) feet above the top injection perforation. Place at least twenty (20) feet of cement plug on top of the CIBP.

PLUG NO. 2: Seal Mahogany Shale and Trona intervals: Squeeze a cement plug on the backside of the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale approximately 2,780 feet to 3,000 feet (unless pre-existing backside cement precludes cement-squeezing this interval) followed by a minimum 220-foot balanced cement plug inside the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale, approximately 2,780 feet to 3,000 feet.

PLUG NO. 3: Seal USDWs: Squeeze a cement plug (1,270 feet - 1,400 feet) on the backside of the 5-1/2 inch casing across the base of the Uinta formation (unless pre-existing backside cement precludes cement-squeezing this interval), followed by a minimum 130-foot balanced cement plug inside the 5-1/2 inch casing across the base of the Uinta Formation, approximately 1,270 feet to 1,400 feet.

PLUG NO.4: Seal Surface: Set a Class "G" cement plug within the 5-1/2 inch casing to 361 feet and up the 5-1/2 inch by 8-5/8 inch casings annulus to the surface.

Federal 1-7-9-18

Spud Date: 9-9-05 Put on Production: 10-28-05

Federal 1-7-9-18

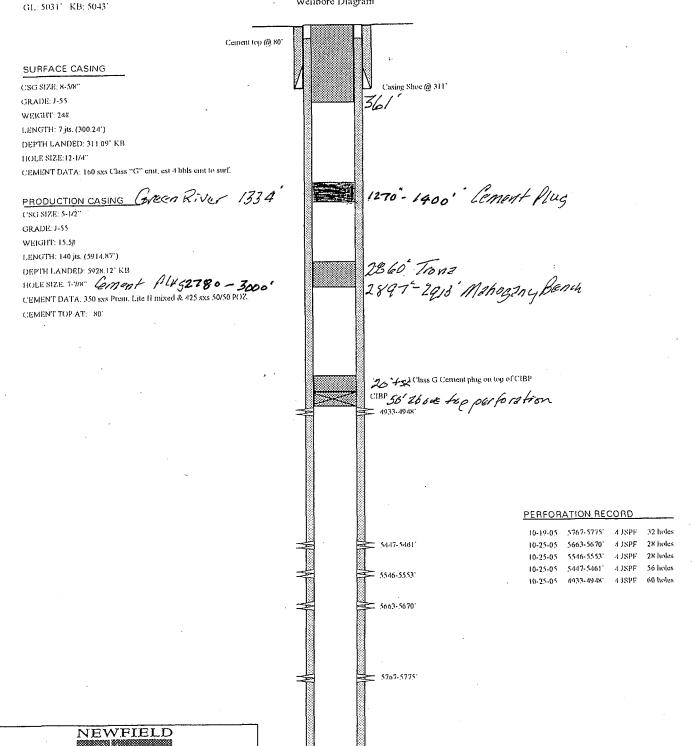
660" FNL & 660" FEL

NE/NE Section 7-T98-R18E

Uintah Co, Utah

API #43-047-35447, Lease #UTTU-16540

Proposed P & A Wellbore Diagram



PBTD (# 5884)

SHOE @ 5928

TD @ 5950.

APPENDIX F

CORRECTIVE ACTION REQUIREMENTS

Federal No. 4-8-9-18 and Federal No. 16-6-9-18 will be monitored weekly at the surface for evidence of fluid movement out of the injection zone.

In addition, Newfield developed a corrective action monitoring program, effective July 10, 2008, entitled "Procedure related to proposed Class II Enhanced Oil Recovery Injection Wells determined by the EPA to have specific Area of Review (AOR) wells with inadequate cement across the Confining Zone".

If possible fluid movement out of the injection zone is identified, either through the weekly monitoring, through Newfield's July 10, 2008 procedure described above, or through any other means (for example, evidence of fluid flow or increased bradenhead annulus pressure readings, tubing-casing annulus pressure readings, or other evidence of a mechanical integrity failure), the Permittee will shut in the Federal No. 1-7-9-18 well immediately and notify the Director. No injection into the Federal No. 1-7-9-18 well will be permitted until the Permittee has notfied the Director that the situation has been resolved, submitted Rework Records (EPA Form No. 7520-12) and a schematic diagram, and received authorization from the Director to re-commence injection.



RE: Procedure related to proposed Class II Enhanced Oil Recovery Injection Wells determined by the EPA to have specific Area of Review (AOR) wells with inadequate cement across the confining zone

Effective July 10, 2008 Newfield Production Company will implement the following procedure to address concerns related to protection of Underground Sources of Drinking Water (USDW) in AOR wells where the interval of cement bond index across the confining zone behind pipe has been determined to be inadequate. The procedure is intended to meet the corrective action requirements found in the UIC Class II permit, as well as provide data that could be used to detect and prevent fluid movement out of the proposed injection zone.

- 1) Establish baseline production casing by surface casing annulus pressures prior to water injection in subject well with a calibrated gauge.
- 2) Record the baseline pressure, report findings to Newfield engineering group and keep on file so it is available upon request
- 3) Place injection well in service. Run packer integrity and radioactive tracer logs to verify wellbore integrity and determine zones taking water.
- 4) Construct a geologic cross section showing zones taking water and their geologic equivalent zones in the AOR wells.
- 5) Submit a report of the packer integrity log, radioactive tracer log, and geologic cross section to to the Newfield engineering staff for review and keep on file so it is available upon request
- 6) Weekly observations of the site will be made by Newfield during normal well operating activities. Any surface discharge of fluids will be reported immediately.
- 7) After injection well is placed in service, weekly observations of annulus pressure will be made and compared to baseline pressure and will be recorded once monthly. The recorded pressure information will be kept on file and be available upon request.
- 8) If pressure increases by more than 10% above baseline at any time in an AOR well with insufficient cement bond, Newfield will run a temperature survey log in subject well. This log, in concert with the geologic crossection, will enable the determination of water movement in the open hole by production casing annulus through a shift in geothermal gradient.
- 9) If water movement is determined in annulus, Newfield will shut in the injection well and repair the production casing by open hole annulus or leave the injection well out of service.

STATEMENT OF BASIS

NEWFIELD PRODUCTION COMPANY FEDERAL 1-7-9-18 UINTAH COUNTY, UT

EPA PERMIT NO. UT21088-07347

CONTACT: Emmett Schmitz

U. S. Environmental Protection Agency Ground Water Program, 8P-W-GW

1595 Wynkoop Street

Denver, Colorado 80202-1129

Telephone: 1-800-227-8917 ext. 312-6174

This STATEMENT OF BASIS gives the derivation of site-specific UIC Permit conditions and reasons for them. Referenced sections and conditions correspond to sections and conditions in the Permit.

EPA UIC permits regulate the injection of fluids into underground injection wells so that the injection does not endanger underground sources of drinking water. EPA UIC permit conditions are based upon the authorities set forth in regulatory provisions at 40 CFR Parts 144 and 146, and address potential impacts to underground sources of drinking water. Under 40 CFR 144.35 Issuance of this permit does not convey any property rights of any sort or any exclusive privilege, nor authorize injury to persons or property of invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. Under 40 CFR 144 Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General Permit conditions for which the content is mandatory and not subject to site-specific differences (40 CFR Parts 144, 146 and 147) are not discussed in this document.

Upon the Effective Date when issued, the Permit authorizes the construction and operation of injection wells so that the injection does not endanger underground sources of drinking water, governed by the conditions specified in the Permit. The Permit is issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR 144.39, 144.40 and 144.41. The Permit is subject to EPA review at least once every five (5) years to determine if action is required under 40 CFR 144.36(a).

2

PART I. General Information and Description of Facility

Newfield Production Company 1001 Seventeenth Street, Suite 2000 Denver, CO 80202

on

August 7, 2006

submitted an application for an Underground Injection Control (UIC) Program Permit or Permit Modification for the following injection well or wells:

Federal 1-7-9-18 660'FNL; 660'FEL., NENE S7, T9S, R18E Uintah County, UT

Regulations specific to Uintah-Ouray Indian Reservation injection wells are found at 40 CFR 147 Subpart TT.

The application, including the required information and data necessary to issue or modify a UIC Permit in accordance with 40 CFR Parts 144, 146 and 147, was reviewed and determined by EPA to be complete.

The Permit will expire upon delegation of primary enforcement responsibility (primacy) for applicable portions of the UIC Program to the Ute Indian Tribe or the State of Utah unless the delegated agency has the authority and chooses to adopt and enforce this Permit as a Tribal or State Permit.

TABLE 1.1 shows the status of the well or wells as "New", "Existing", or "Conversion" and for Existing shows the original date of injection operation. Well authorization "by rule" under 40 CFR Part 144 Subpart C expires automatically on the Effective Date of an issued UIC Permit.

Federal 1-7-9-18 is currently an active Green River Formation Douglas Creek Member oil well. It is the initial intent of the applicant to use current production perforations for Class II enhanced recovery injection. The Federal 1-7-9-18 has total depth in the Basal Carbonate Member.

	TABLE 1.1	
WELL STA	ATUS / DATE OF OPERA	TION
	NEW WELLS	
Well Name	Well Status	Date of Operation
Federal 1-7-9-18	New	N/A

机体电影 医电动脉丛

PART II. Permit Considerations (40 CFR 146.24)

Hydrogeologic Setting

The proposed enhanced oil recovery injection well is located in the Greater Monument Butte Field, T7-9S and R15-19E, which lies near the center of the broad, gently northward dipping south flank of the Uinta Basin. More than 450 million barrels of oil (63 MT) have been produced from sediments of the Uinta Basin. The Uinta Basin is a topographic and structural trough encompassing an area of more than 9300 square mi (14,900 km) in northeast Utah. The basin is sharply asymmetrical, with a steep north flank bounded by the east-west-trending Uinta Mountains, and a gently dipping south flank. The Uinta Basin was formed in Paleocene to Eocene time, creating a large area of internal drainage which was filled by the ancestral Lake Uinta. The lacustrine, or fresh water lake-formed, sediments deposited in and around Lake Uinta make up the Uintah and Green River Formations. The southern shore of Lake Uinta was very broad and flat, resulting in large cyclic shifts of the location of the shoreline during the many repeated transgressive and regressive cycles caused by the climatic and tectonic-induced rise and fall of water levels of the lake. Distributary-mouth bars, distributary channels, and near-shore bars are the primary oil producing sandstone reservoirs in the area. (Ref: "Reservoir Characterization of the Lower Green River Formation, Southwest Uinta Basin, Utah Biannual Technical Progress Report. 4/1/99-9/30/99", by C. D. Morgan, Program Manager, November 1999, Contract DE-AC26-98BC15103).

The Duchesne River Formation is absent in this area. Shale and siltstone of the Uintah Formation outcrop and compose the surface rock throughout the area. The lower 600 feet to 800 feet of the Uinta Formation, consisting generally of shale interbedded with occasionally water-bearing sandstone lenses between 5 feet to 20 feet thick, is underlain by the Green River Formation. The Green River Formation is further subdivided into several Member and local marker units. The cyclic nature of Green River deposition in the southern shore area resulted in numerous stacked, intertonguing deltaic and near-shore sand and silt deposits. Red alluvial shale and siltstone deposits that intertongue with the Green River sediments are of the Colton and Wasatch Formations. Under the Wasatch Formation is the Mesaverde Formation, which consists primarily of continental-origin deposits of interbedded shale, sandstone, and coal.

The geologic dip is about 200 feet per mile, and there are no known surface faults in this area. Veins of gilsonite, a natural resinous hydrocarbon occasionally mined as a resource, occurs in the greater Uintah Basin though it is predominantly found on the eastern margin of the basin near the Colorado border. Vertical veins, generally between 2 ft to 6 ft wide but up to 28 ft wide, may extend many miles in length and occasionally extend as deep as 2000 ft. In this area within the Greater Monument Butte Field there is one known gilsonite vein. This vein is not considered to present a pathway for migration of fluid out of the injection zone because it terminates at depth of about 2000 ft, far above the protective confining layer and much deeper injection zone. Newfield and the owner of this former gilsonite mine have agreed to conditions for operation near this vein to ensure no potential for impact to this vein or to ground water from enhanced oil recovery operations.

Geologic Setting (TABLE 2.1)

Water wells for domestic supply in this area, when present, generally are completed into the shallow alluvium, the Duchesne River Formation, or the underlying Uinta Formation, and the water generally contains approximately 500 to 1,500 mg/l and higher total dissolved solids.

The Uinta-Animas aguifer in the Uinta Basin is present in water-yielding beds of sandstone. conglomerate, and siltstone of the Duchesne River and Uinta Formations, the Renegade Tongue of the Wasatch Formation, and the Douglas Creek Member of the Green River Formation. The Renegade Tongue of the Wasatch Formation and the Douglas Creek Member of the Green River Formation contain an aguifer along the southern and eastern margins of the basin where the rocks primarily consist of fluvial, massive, irregularly bedded sandstone and siltstone. Water-yielding units in the Uinta-Animas aquifer in the Uinta Basin commonly are separated from each other and from the underlying Mesaverde aquifer by units of low permeability composed of claystone, shale, marlstone, or limestone. In the Uinta Basin, for example, the part of the aquifer in the Duchesne River and Uinta Formations ranges in thickness from 0 feet at the southern margin of the aquifer to as much as 9,000 feet in the north-central part of the aquifer. Ground-water recharge to the Uinta-Animas aquifer generally occurs in the areas of higher altitude along the margins of the basin. Ground water is discharged mainly to streams, springs, and by transpiration from vegetation growing along stream valleys. The rate of ground-water withdrawal is small, and natural discharge is approximately equal to recharge. Recharge occurs near the southern margin of the aquifer, and discharge occurs near the White and Green Rivers (from USGS publication HA 730-C). Water samples from Mesaverde sands in the nearby Natural Buttes Unit yielded highly saline water.

TABLE 2.1
GEOLOGIC SETTING
Federal 1-7-9-18

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Lithology
Uinta	0	281	< 10,000	Sand and shale.
Uinta	281	1,334	,	Interbedded lacustrine sand, shale and carbonate with fluvial sand and shale.
Green River	1,334	5,973		Interbedded lacustrine sand, shale and carbonate with fluvial sand and shale.
Green River: Trona	2,860	2,897		Evaporite
Green River: Mahogany Bench	2,897	2,913		Oil shale/carbonate
Green River: Garden Gulch Member	3,688	4,630		Interbedded sand, shale and carbonate with fluvial sand and shale.
Green River: Doglas Creek Member	4,630	5,848	7,560	Interbedded lacustrine sand, shale and carbonate with fluvial sand and shale.
Green River: Basal Carbonate Member	5,848	5,973		Carbonate

Proposed Injection Zone(s) (TABLE 2.2)

An injection zone is a geological formation, group of formations, or part of a formation that receives fluids through a well. The proposed injection zones are listed in TABLE 2.2.

Injection will occur into an injection zone that is separated from USDWs by a confining zone which is free of known open faults or fractures within the Area of Review.

The EPA approved interval for Class II enhanced recovery injection in the Federal No. 1-7-9-18 is located between the top of the Garden Gulch Member (3,688 feet) and top of the Wasatch Member estimated to be 5,973 feet.

TABLE 2.2 INJECTION ZONES

Federal 1-7-9-18

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Fracture Gradient (psi/ft)	Porosity	Exempted?*
Green River Formation: Garden Gulch-Douglas Creek-Basal Carbonate Members	3,688	5,973	7,560	0.690		P
* C - Currently Exempted E - Previously Exempted P - Proposed Exemption N/A - Not Applicable			x			

Confining Zone(s) (TABLE 2.3)

A confining zone is a geological formation, part of a formation, or a group of formations that limits fluid movement above the injection zone. The confining zone or zones are listed in TABLE 2.3.

The 34-foot (3,654 feet - 3,688 feet) shale Confining Zone directly overlies the top of the Garden Gulch Member.

TABLE 2.3 CONFINING ZONES Federal 1-7-9-18

Formation Name	Formation Lithology	Top (ft)	Base (ft)	
Green River	Shale	3,654	3,688	_

Underground Sources of Drinking Water (USDWs) (TABLE 2.4)

Aquifers or the portions thereof which contain less than 10,000 mg/l total dissolved solids (TDS) and are being or could in the future be used as a source of drinking water are considered to be USDWs. The USDWs in the area of this facility are identified in TABLE 2.4.

Throughout the Greater Monument Butte Field area undergoing enhanced oil recovery operations, water analyses of the Green River Formation generally exhibit total dissolved solids (TDS) content well in excess of 10,000 mg/l. However, some recent water analyses from the field showed lower TDS values closer to 10,000 mg/l. While rain and surface water recharge into Green River Formation outcrops further south along the Book Cliffs/Roan Cliffs in effect "freshens" the Green River Formation water near those outcrops, in this area of the Monument Butte Field the observed occasional 'freshening' is ascribed to the effective dilution of the originally in-place high TDS water from injection of relatively fresh water for enhanced oil recovery operations. Water samples from deeper Mesaverde Formation sands in the nearby Natural Buttes Unit yield highly saline water.

FIRAL PERMIT

The State of Utah "Water Wells and Springs" identifies no public water supply wells within the one-quarter (1/4) mile Area-of-Review (AOR) around the Federal No. 1-7-9-18.

Technical Publication No. 92: State of Utah, Department of Natural Resources, cites the base of Underground Sources of Drinking Water (USDW) in the Uinta Formation approximately 281 feet from the surface. Absent definitive information relative to the water quality of the Uinta Formation, 281 feet to the base of the Uinta Formation (1,334 feet), the EPA will require during plugging and abandonment a cement plug at the base of the Uinta Formation to protect contamination of possible Uinta USDWs.

TABLE 2.4 UNDERGROUND SOURCES OF DRINKING WATER (USDW)

Federal 1-7-9-18

Formation Name	Formation Lithology	Top (ft)	Base (ft)	TDS (mg/l)
Uinta	Sand and shale	0	281	< 10,000
Uinta	Interbedded lacustrine sand, shale and carbonate with fluvial sand and shale.	281	1,334	

Exempted Aquifer(s) (40 CFR 144.7 and 146.4)

Aquifers exempted from protection as a USDW are listed in TABLE 2.5. Exempted is that portion of the aquifer between the depths listed ("TOP" and "BASE") and within the Exempted Radius of the well's surface location, or for an Area Permit, one-quarter (1/4) mile exterior to the defined Area Permit boundary. "Criteria" corresponds to the appropriate criteria (below) for exemption. "VOLUME" is the maximum volume of fluid which can be injected into the exempted area before the injected fluids exceed the exemption boundary, calculated using the following formula:

V = Pi * radius2 * height * porosity / 5.615

where V = VOLUME (in barrels)

Pi = 3.1416

radius2 = Exempted Radius (squared) - generally 1/4 mile

height = height of reservoir ("BOTTOM" - "TOP")

porosity = reservoir porosity (in percent)

5.615 = conversion factor (cubic feet per barrel)

TABLE 2.5 AQUIFER EXEMPTION

Federal 1-7-9-18

Formation Name	Top (ft)	Base (ft)	Criteria	Volume (bbl)
Green River Formation: Garden Gulch-Douglas Creek-Basal Carbonate Members	3,688	5,973		

An aquifer or a portion thereof may be determined to be an "exempted aquifer" provided it

meets criteria, listed below.

- a It does not currently serve as a source of drinking water; AND
- b(1) It cannot now and will not in the future serve as a source of drinking water because it is mineral, hydrocarbon, or geothermal energy producing, or can be demonstrated by a permit applicant as part of a permit for a Class II or III operation to contain minerals or hydrocarbons that considering their quantity and location are expected to be commercially producible; OR
- b(2) It cannot now and will not in the future serve as a source of drinking water because it is situated at a depth or location which makes recovery of water for drinking water purposes economically or technically impractical; OR
- b(3) It cannot now and will not in the future serve as a source of drinking water because it is so contaminated that it would be economically or technologically impractical to render that water fit for human consumption; OR
- b(4) It cannot now and will not in the future serve as a source of drinking water because it is located over a Class III well mining area subject to subsidence or catastrophic collapse; OR
- The total dissolved solids content of the ground water is more than 3,000 and less than 10,000 mg/l and it is not reasonably expected to supply a public water system.

A June 8, 2006 "Production Water Analysis -Run D" obtained from the Federal No. 1-7-9-18 identified total dissolved solids (TDS) of the producing zones water as 7,560 mg/l.

PART III. Well Construction (40 CFR 146.22)

The Federal No. 1-7-9-18 was drilled to a total depth of 5,950 feet (KB) in the Basal Carbonate Member of the Green River Formation.

Surface casing (8-5/8 inch) was set at a depth of 311 feet in a 12-1/4 inch hole using 160 sacks of Class "G" cement which was circulated to the surface.

Production casing (5-1/2 inch) was set at a depth of 5,928 feet (KB) in a 7-7/8 inch hole with 350 sacks of Premium Lite II and 425 sacks of 50/50 poz mix. This well construction is considered adequate to protect USDWs. 80% bond index cement bond covers the entire Confining Zone.

The EPA calculates the top of cement as 927 feet from the surface. The Cement Bond Log (CBL) identifies top of cement at 80 feet.

The schematic diagram shows enhanced recovery injection perforations in the Douglas Creek Member of the Green River Formation. Additional perforations may be added at a later time between the depths of 3,688 feet and the top of the Wasatch Formation (Estimated to be 5,973 feet) provided the operator first notifies the Director and later submits an updated well completion report (EPA Form 7520-12) and schematic diagram.

The packer will be set no higher than 100 feet above the top perforation.

TABLE 3.1 WELL CONSTRUCTION REQUIREMENTS Federal 1-7-9-18

Casing Type	Hole Size (in)	Casing Size (in)	Cased Interval (ft)	Cemented Interval (ft)
Peroduction	7.88	5.50	0 - 5,928	80 - 5,950
Surface	12.25	8.63	0 - 311	0 - 311

The approved well completion plan will be incorporated into the Permit as APPENDIX A and will be binding on the Permittee. Modification of the approved plan is allowed under 40 CFR 144.52(a)(1) provided written approval is obtained from the Director prior to actual modification.

Casing and Cementing (TABLE 3.1)

The well construction plan was evaluated and determined to be in conformance with standard practices and guidelines that ensure well injection does not result in the movement of fluids into USDWs. Well construction details for this "new" injection well is shown in TABLE 3.1.

Remedial cementing may be required if the casing cement is shown to be inadequate by cement bond log or other demonstration of Part II (External) mechanical integrity.

Tubing and Packer

Injection tubing is required to be installed from a packer up to the surface inside the well casing. The packer will be set above the uppermost perforation. The tubing and packer are designed to

prevent injection fluid from coming into contact with the outermost casing.

Tubing-Casing Annulus (TCA)

The TCA allows the casing, tubing and packer to be pressure-tested periodically for mechanical integrity, and will allow for detection of leaks. The TCA will be filled with fresh water treated with a corrosion inhibitor or other fluid approved by the Director.

The tubing/casing annulus must be kept closed at all times so that it can be monitored as required under conditions of the Permit.

Monitoring Devices

The permittee will be required to install and maintain wellhead equipment that allows for monitoring pressures and providing access for sampling the injected fluid. Required equipment may include but is not limited to: 1) shut-off valves located at the wellhead on the injection tubing and on the TCA; 2) a flow meter that measures the cumulative volume of injected fluid; 3) fittings or pressure gauges attached to the injection tubing and the TCA for monitoring the injection and TCA pressure; and 4) a tap on the injection line, isolated by shut-off valves, for sampling the injected fluid.

All sampling and measurement taken for monitoring must be representative of the monitored activity.

PART IV. Area of Review, Corrective Action Plan (40 CFR 144.55)

TABLE 4.1 AOR AND CORRECTIVE ACTION					
Well Name	Туре	Status (Abandoned Y/N)	Total Depth (ft)	TOC Depth (ft)	CAP Required (Y/N)
Federal 16-6-9-18	Producer	No	5,950	610	Yes
Federal 2-7-9-18	Producer	No	5,900	300	No
Federal 4-8-9-18 .	Producer	No	6,090	2,428	Yes
Federal 8-7-9-18	Producer	No	5,920	170	No

TABLE 4.1 lists the wells in the Area of Review ("AOR") and shows the well type, operating status, depth, top of casing cement ("TOC") and whether a Corrective Action Plan ("CAP") is required for the well.

Area Of Review

Applicants for Class I, II (other than "existing" wells) or III injection well Permits are required to identify the location of all known wells within the injection well's Area of Review (AOR) which penetrate the injection zone, or in the case of Class II wells operating over the fracture pressure of the formation, all known wells within the area of review that penetrate formations which may be affected by increased pressure. Under 40 CFR 146.6 the AOR may be a fixed radius of not less than one quarter (1/4) mile or a calculated zone of endangering influence. For Area Permits, a fixed width of not less than one quarter (1/4) mile for the circumscribing area may be used.

Corrective Action Plan

For wells in the AOR which are improperly sealed, completed, or abandoned, the applicant shall develop a Corrective Action Plan (CAP) consisting of the steps or modifications that are necessary to prevent movement of fluid into USDWs.

The CAP will be incorporated into the Permit as APPENDIX F and become binding on the permittee.

PART V. Well Operation Requirements (40 CFR 146.23)

TABL INJECTION ZON	LE 5.1 NE PRESSUI	RES			
Federal 1-7-9-18					
Formation Name	Depth Used to Calculate MAIP (ft)	Fracture Gradient (psi/ft)	Initial MAIP (psi)		
Green River Formation: Garden Gulch-Douglas Creek-Basal Carbonate Members	4,933	0.690	1,235		

Approved Injection Fluid

The approved injection fluid is limited to Class II injection well fluids pursuant to 40 CFR § 144.6(b). For disposal wells injecting water brought to the surface in connection with natural gas storage operations, or conventional oil or natural gas production, the fluid may be commingled and the well used to inject other Class II wastes such as drilling fluids and spent well completion, treatment and stimulation fluid. Injection of non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes, and vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste, is prohibited.

The proposed injectate will be a blend of culinary-quality water from the Johnson Water District pipeline and/or river water via the Green River pipeline, and blended with with produced Green River Formation water from wells proximate ro the Federal No. 1-7-9-18.

Injection Pressure Limitation

Injection pressure, measured at the wellhead, shall not exceed a maximum calculated to assure that the pressure used during injection does not initiate new fractures or propagate existing fractures in the confining zones adjacent to the USDWs.

The applicant submitted injection fluid density and injection zone data which was used to calculate a formation fracture pressure and to determine the maximum allowable injection pressure (MAIP), as measured at the surface, for this Permit.

TABLE 5.1 lists the fracture gradient for the injection zone and the approved MAIP, determined according to the following formula:

$$FP = [fg - (0.433 * sg)] * d$$

FP = formation fracture pressure (measured at surface)

fg = fracture gradient (from submitted data or tests)

sg = specific gravity (of injected fluid)

d = depth to top of injection zone (or top perforation)

Injection Volume Limitation

Cumulative injected fluid volume limits are set to assure that injected fluids remain within the boundary of the exempted area. Cumulative injected fluid volume is limited when injection occurs into an aquifer that has been exempted from protection as a USDW.

There will be no restrictions on the cumulative volume or the daily volume of authorized Class II fluid to be injected into the approved Green River Formation interval. The permittee wil not exceed the maximum authorized injection pressure.

Mechanical Integrity (40 CFR 146.8)

An injection well has mechanical integrity if:

- 1. there is no significant leak in the casing, tubing, or packer (Part I); and
- 2. there is no significant fluid movement into a USDW through vertical channels adjacent to the injection well bore (Part II).

The Permit prohibits injection into a well which lacks mechanical integrity.

The Permit requires that the well demonstrate mechanical integrity prior to injection and periodically thereafter. A demonstration of mechanical integrity includes both internal (Part I) and external (Part II). The methods and frequency for demonstrating Part I and Part II mechanical integrity are dependent upon well-specific conditions as explained below.

Well construction and site-specific conditions dictate the following requirements for Mechanical Integrity (MI) demonstrations:

PART I MI: Internal MI will be demonstrated prior to beginning injection. Since this well is constructed with a standard casing, tubing, and packer configuration, a successful mechanical integrity test (MIT) is required to take place at least once every five (5) years. A demonstration of Part I MI is also required prior to resuming injection following any workover operation that affects the casing, tubing or packer. Part I MI may be demonstrated by a standard tubing-casing annulus pressure test using the maximum permitted injection pressure or 1000 psi, which ever is less, with a ten (10) percent or less pressure loss over thirty (30) minutes.

PART VI. Monitoring, Recordkeeping and Reporting Requirements

Injection Well Monitoring Program

At least once a year the permittee must analyze a sample of the injected fluid for total dissolved solids (TDS), specific conductivity, pH, and specific gravity. This analysis shall be reported to EPA annually as part of the Annual Report to the Director. Any time a new source of injected fluid is added, a fluid analysis shall be made of the new source.

Instantaneous injection pressure, injection flow rate, cumulative fluid volume and TCA pressures must be observed on a weekly basis. A recording, at least once every thirty (30) days, must be made of the injection pressure, annulus pressure, monthly injection flow rate and cumulative fluid volume. This information is required to be reported annually as part of the Annual Report to the Director.

PART VII. Plugging and Abandonment Requirements (40 CFR 146.10)

Plugging and Abandonment Plan

Prior to abandonment, the well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs, and in accordance with any applicable Federal, State or local law or regulation. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.6 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520 13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. The plugging and abandonment plan is described in Appendix E of the Permit.

The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs and in accordance with other applicable Federal, State or local law or regulation. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs. However, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. Within sixty (60) days after plugging, the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

- PLUG NO. 1: Seal Injection Zone: Set a cast iron bridge plug (CIBP) no more than fifty (50) feet above the top injection perforation. Place at least twenty (20) feet of cement plug on top of the CIBP.
- PLUG NO. 2: Seal Mahogany Shale and Trona intervals: Squeeze a cement plug on the backside of the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale approximately 2,780 feet to 3,000 feet (unless pre-existing backside cement precludes cement-squeezing this interval) followed by a minimum 220-foot balanced cement plug inside the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale, approximately 2,780 feet to 3,000 feet.
- PLUG NO. 3: Seal USDWs: Squeeze a cement plug (1,270 feet 1,400 feet) on the backside of the 5-1/2 inch casing across the base of the Uinta formation (unless pre-existing backside cement precludes cement-squeezing this interval), followed by a minimum 130-foot balanced cement plug inside the 5-1/2 inch casing across the base of the Uinta Formation, approximately 1,270 feet to 1,400 feet.
- PLUG NO.4: Seal Surface: Set a Class "G" cement plug within the 5-1/2 inch casing to 361 feet and up the 5-1/2 inch by 8-5/8 inch casings annulus to the surface.

Permit UT21088-07347 13 FINAL FERRET Statement of Basis

PART VIII. Financial Responsibility (40 CFR 144.52)

Demonstration of Financial Responsibility

The permittee is required to maintain financial responsibility and resources to close, plug, and abandon the underground injection operation in a manner prescribed by the Director. The permittee shall show evidence of such financial responsibility to the Director by the submission of a surety bond, or other adequate assurance such as financial statements or other materials acceptable to the Director. The Regional Administrator may, on a periodic basis, require the holder of a lifetime permit to submit a revised estimate of the resources needed to plug and abandon the well to reflect inflation of such costs, and a revised demonstration of financial responsibility if necessary. Initially, the operator has chosen to demonstrate financial responsibility with:

A June 14, 2009 demonstration of Financial Resposibility in the amount of \$59,344 has been provided.

The Director may revise the amount requred, and may require the Permittee to obtain and provide updated estimates of plugging and abandonment costs according to the approved Plugging and Abandonment Plan.

Financial Statement, received May 16, 2008

Evidence of continuing financial responsibility is required to be submitted to the Director annually.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 8

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
http://www.epa.gov/region08

JUL 2 8 2009

Ref: 8P-W-GW

<u>CERTIFIED MAIL</u> RETURN RECEIPT REQUESTED

Mr. Michael Guinn District Manager Newfield Production Company Route 3 - Box 3630 Myton, UT 84052 Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY

95 18E 7

RE: Authorization to Inject
Reduce MAIP: No. 1
EPA UIC Permit UT21088-07347

Federal No. 1-7-9-18 Uintah County, Utah API #: 43-047-35447

Dear Mr. Guinn:

Newfield Production Company (Newfield) has satisfactorily completed Environmental Protection Agency (EPA) Prior to Commencing Injection Requirements for Final Permit UT21088-07347 effective April 7, 2009. The Part I (Internal) Mechanical Integrity Test (MIT), Well Rework Record (EPA Form No. 7520-12) noting new uppermost perforations, schematic diagram, and pore pressure were reviewed and approved by EPA on July 23, 2009.

As of the date of this letter, Newfield is authorized to commence injection into Federal No. 1-7-9-18 at a maximum allowable surface injection pressure (MAIP) of 1,180 psig.

Until such time as the operator demonstrates through a Step Rate Test (SRT) that the Fracture Gradient (FG) is other than 0.690 psi/ft and the new uppermost perforation is not 4,715 feet. Federal No. 1-7-9-18 shall be operated at a MAIP no greater than 1,180 psig.

AUG 0 6 2009

DIV. OF OIL, GAS & MINING

Please remember that it is your responsibility to be aware of and to comply with all conditions of Final Permit UT21088-07347.

If you have questions regarding the above action, please call Emmett Schmitz at 303-312-6174 or 1-800-227-8917, ext. 312-6174.

Sincerely,

Steven Pratt, P.E., CAPM (Inactive)

Director

Ground Water Program

cc: Uintah & Ouray Business Committee, Ute Indian Tribe

Curtis Cesspooch, Chairman Irene Cuch, Vice-Chairwoman

Frances Poowegup, Councilwoman

Ronald Groves, Councilman

Klimar

Phillip Chimburas, Councilman

Steven Cesspooch, Councilman

Daniel Picard
Superintendent
Uintah & Ouray Indian Agency
U.S. Bureau of Indian Affairs

Eric Sundberg Regulatory Analyst Newfield Production Company Denver, CO

Larry Love Director Energy & Minerals Dept. Ute Indian Tribe

Ferron Secakuku Director Natural Resources Ute Indian Tribe Gilbert Hunt Associate Director State of Utah – Division of Oil, Gas & Mining

Fluid Minerals Engineering Dept. U.S. Bureau of Land Management Vernal, Utah

STATE OF UTAH

DEPARTMENT OF NATURA DIVISION OF OIL, GAS		5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-16540
SUNDRY NOTICES AND RE	EPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing v wells, or to drill horizontal laterals. Use APPLICATION FOR PERM	wells below current bottom-hole depth, reenter plugged	7. UNIT OF CA AGREEMENT NAME: SUNDANCE UNIT
OIL WELL GAS WELL OTHER	8. WELL NAME and NUMBER: FEDERAL 1-7-9-18	
2. NAME OF OPERATOR:		9. API NUMBER:
NEWFIELD PRODUCTION COMPANY	4304735447	
3. ADDRESS OF OPERATOR:	PHONE NUMBER 435.646.3721	10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
Route 3 Box 3630 CITY Myton STATE UT 4. LOCATION OF WELL:	T ZIP 84052 435.646.3721	MONOMENT BOTTE
FOOTAGES AT SURFACE: 660 FNL 660 FEL		COUNTY: UINTAH
OTR/OTR, SECTION. TOWNSHIP. RANGE. MERIDIAN: NENE, 7, T9S, R18E		STATE: UT
CHECK APPROPRIATE BOXES TO INDIC	CATE NATURE OF NOTICE, REP	ORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
ACIDIZE	DEEPEN	REPERFORATE CURRENT FORMATION
NOTICE OF INTENT (Submit in Duplicate) ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will CASING REPAIR	NEW CONSTRUCTION	TEMPORARITLY ABANDON
CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR
08/10/2009 CHANGE TUBING	PLUG AND ABANDON	VENT OR FLAIR
SUBSEQUENT REPORT CHANGE WELL NAME	PLUG BACK	WATER DISPOSAL
(Submit Original Form Only) CHANGE WELL STATUS	PRODUCTION (START/STOP)	WATER SHUT-OFF
Date of Work Completion: COMMINGLE PRODUCING FORMATIO		X OTHER: - Change status put well on injection
X CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATION	<u>Z</u>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly s The above reference well was put on injection at 2:00 PM UT21088-07349	-	volumes, etc.
NAME (PLEASE PRINT) Kathy Chapman SIGNATURE HARMAN	TITLE Office Manager DATE 08/11/2009	

(This space for State use only)

RECEIVED
AUG 1 2 2009
DIV. OF OIL, GAS & MINING

STATE OF UTAH

*	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING				
sundr	Y NOTICES AND REPO	ORTS ON	WELLS	USA UTU-16540 6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
Do not use this form for proposals to d	trill new wells, significantly deepen existing wells be	elow current bottom-l	hole depth, reenter plugged	7. UNIT or CA AGREEMENT NAME: SUNDANCE UNIT	
TYPE OF WELL: OIL WELL				8. WELL NAME and NUMBER: FEDERAL 1-7-9-18	
NAME OF OPERATOR:				9. API NUMBER:	
	VFIELD PRODUCTION COMPANY				
ADDRESS OF OPERATOR:			PHONE NUMBER	10. FIELD AND POOL, OR WILDCAT:	
Route 3 Box 3630	CITY Myton STATE UT	ZIP 84052	435.646.3721	MONUMENT BUTTE	
LOCATION OF WELL: FOOTAGES AT SURFACE: 660 FNL	660 FEL			COUNTY: UINTAH	
OTR/OTR. SECTION. TOWNSHIP. RANGI	E. MERIDIAN: NENE, 7, T9S, R18E			STATE: UT	
. CHECK APPRO	PRIATE BOXES TO INDICAT	E NATURE (OF NOTICE, REPO	ORT, OR OTHER DATA	
TYPE OF SUBMISSION		TY	PE OF ACTION		
7	ACIDIZE	DEEPEN		REPERFORATE CURRENT FORMATION	
NOTICE OF INTENT (Submit in Duplicate)	ALTER CASING	FRACTURE T	REAT	SIDETRACK TO REPAIR WELL	
Approximate date work will	CASING REPAIR	NEW CONSTR		TEMPORARITLY ABANDON	
Approximate date work will	CHANGE TO PREVIOUS PLANS	OPERATOR C		TUBING REPAIR	
	CHANGE TUBING	=			
7		PLUG AND A	BANDON	VENT OR FLAIR	
SUBSEOUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME	☐ PLUG BACK		WATER DISPOSAL	
Date of Work Completion:	X CHANGE WELL STATUS	=	N (START/STOP)	WATER SHUT-OFF	
-	COMMINGLE PRODUCING FORMATIONS	RECLAMATI	ON OF WELL SITE	OTHER: -	
07/08/2009	X CONVERT WELL TYPE	RECOMPLET	E - DIFFERENT FORMATION		
The subject well has beer snds 4715'-4719' 4JSPF, well. Permission was give charted for 30 minutes with	OMPLETED OPERATIONS. Clearly show: n converted from a producing oil well 28 shots. On 06/22/09 Steven Pratt v en at that time to perform the test on th no pressure loss. The well was no PA representative available to witnes	to an injection with the EPA was 06/30/09. On 0 ot injecting during	well on 06/16/09. Or as contacted concerr 07/01/09 the casing v ng the test. The tubir	ne new interval was added, the D2 ning the initial MIT on the above listed was pressured up to 1445 psig and ng pressure was 90 psig during the	
		1 1930 1 10	ed by the ivision of and Mining	RECEIVED JUL 1 3 2009 DIV. OF OIL, GAS & MINING	
NAME (PLEASE PRINT) Jentri Park	Jun A	· · · · · · · · · · · · · · · · · · ·	Production Tech DATE 07/08/2009		
his space for State use only)					

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test U.S. Environmental Protection Agency

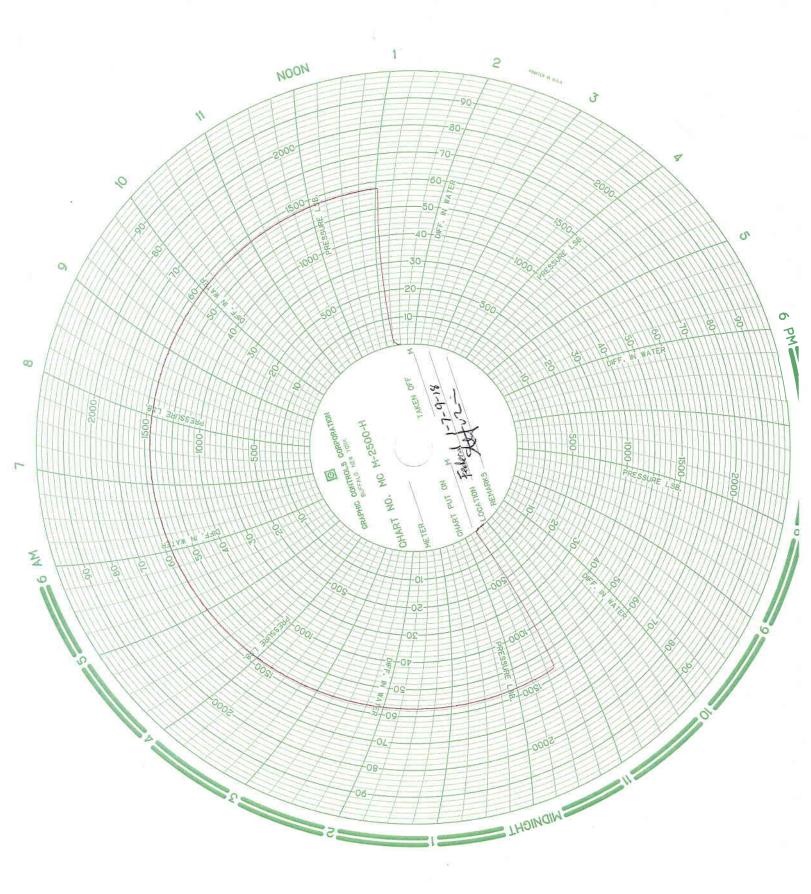
Underground Injection Control Program 999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness:			Date:	7, 1	109	
Test conducted by: Aif	edo Rios					
Others present:						
			TO STATE	Ctat	us: AC TA UC	
Well Name: Federal 1-7			Type: ER SWI) Stat	us: AC IA OC	
Field: Monument But Location: Falsal 1-7-9-18 Sec	T A N	(A) D 16	FIN Country	Hintoh	State: Utah	_
	:_+_ 1 N	(2) K_TO	W County.	Dela 1 sex		
Operator: New field	/ Mayir	num Allow	able Pressure:		PSIG	l
Last MIT:/	/ Ivlaxiii	idili Allow	aoic i ressure.			
Is this a regularly scheduled	d test? [] `	Yes [X	7 No	•		
Initial test for permit?		Yes [
Test after well rework?		Yes [X	'l No			
Well injecting during test?	[]	Yes [x] No If Yes,	rate:	bpd	
		Ø		.:.~		
Pre-test casing/tubing annulu	is pressure:		ps	sig		
TOTAL TABLE	Test #1		Test #2		Test #3	
MIT DATA TABLE	PRESSURE		1 Rest #2			
TUBING	T	psig		psig		psig
Initial Pressure	90					psig
End of test pressure	90	psig		psig		Pv.8
CASING / TUBING	ANNULUS		PRESSURE			
0 minutes	1445	psig		psig		psig
5 minutes	1445	psig		psig		psig
10 minutes	1445	psig		psig		psig
15 minutes	1445	psig		psig		psig
20 minutes	1445	psig		psig		psig
25 minutes	1445	psig		psig		psig
30 minutes	1445	psig		psig		psig
minutes		psig		psig		psig
minutes		psig		psig		psig
RESULT	Pass	Fail	[] Pass	[]Fail	Pass []Fail
MESULI	1 435	J. 411		<u> </u>		

M No Does the annulus pressure build back up after the test? [] Yes MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness:	



Sundry Number: 51627 API Well Number: 43047354470000

	STATE OF UTAH		FORM 9
ı	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN	-	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-16540
SUNDR	RY NOTICES AND REPORTS (ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	posals to drill new wells, significantly or reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Water Injection Well			8. WELL NAME and NUMBER: FEDERAL 1-7-9-18
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO	DMPANY		9. API NUMBER: 43047354470000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT		PHONE NUMBER: Ext	9. FIELD and POOL or WILDCAT: 8 MILE FLAT NORTH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0660 FNL 0660 FEL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NENE Section: 0	HIP, RANGE, MERIDIAN: 07 Township: 09.0S Range: 18.0E Meridi	an: S	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
Approximate date work win start.	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
5/23/2014	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
DRILLING REPORT	L TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: 5 YR MIT
5 YR MIT perforr casing was pressur no pressure loss pressure was 9	completed operations. Clearly show a med on the above listed well ed up to 1302 psig and chars. The well was injecting duri 945 psig during the test. There is all able to witness the test. E	On 05/23/2014 the ted for 30 minutes with ng the test. The tbg e was not an EPA PA #UT22197-07347	Accepted by the Utah Division of Oil, Gas and Mining FORITE SORP ONLY
NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBE 435 646-4874	ER TITLE Water Services Technician	
SIGNATURE N/A		DATE 5/29/2014	

Sundry Number: 51627 API Well Number: 43047354470000

Mechanical Integrity Test Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency Underground Injection Control Program 999 18th Street, Suite 500 Denver, CO 80202-2466

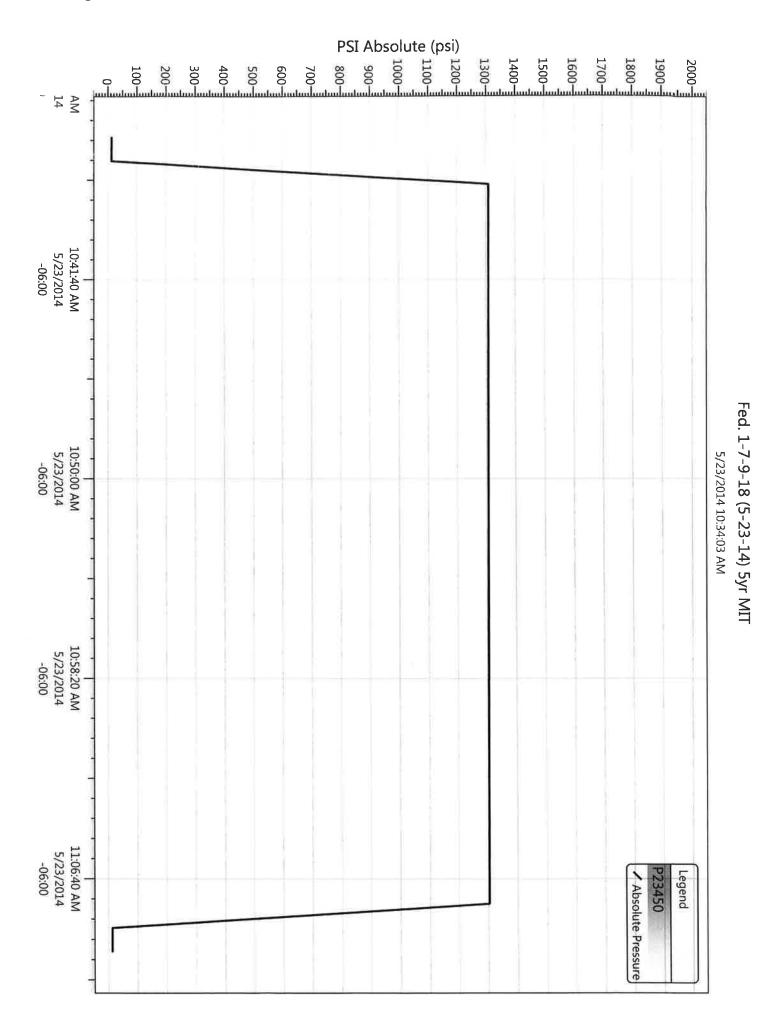
EPA Witness: Test conducted by: Others present:	TOHNNY SE	Date: _5 / 23	
Location:/ Sec Operator:// Sec Operator:// Sec Last MIT:/ Is this a regularly scheduled Initial test for permit? Test after well rework? Well injecting during test?	Maximum Allown Maxi	E W County: \(\sum \)	PSIG
Pre-test casing/tubing annulu		937 psig	
MIT DATA TABLE TUBING	Test #1 PRESSURE	Test #2	Test #3
Initial Pressure	937 psig	psig	psig
End of test pressure	945 psig	psig	psig
CASING / TUBING	ANNULUS	PRESSURE	,
0 minutes	1309 psig	psig	psig
5 minutes	1309 psig	psig	psig
10 minutes	1309 psig	psig	psig
15 minutes	1307 psig	psig	psig
20 minutes	1305 psig	psig	psig
25 minutes	1303 psig	psig	psig
30 minutes	1302 psig	psig	psig
minutes	psig	psig	psig
minutes	psig	psig	psig
RESULT	[X] Pass []Fail	Pass Fail	[] Pass []Fail

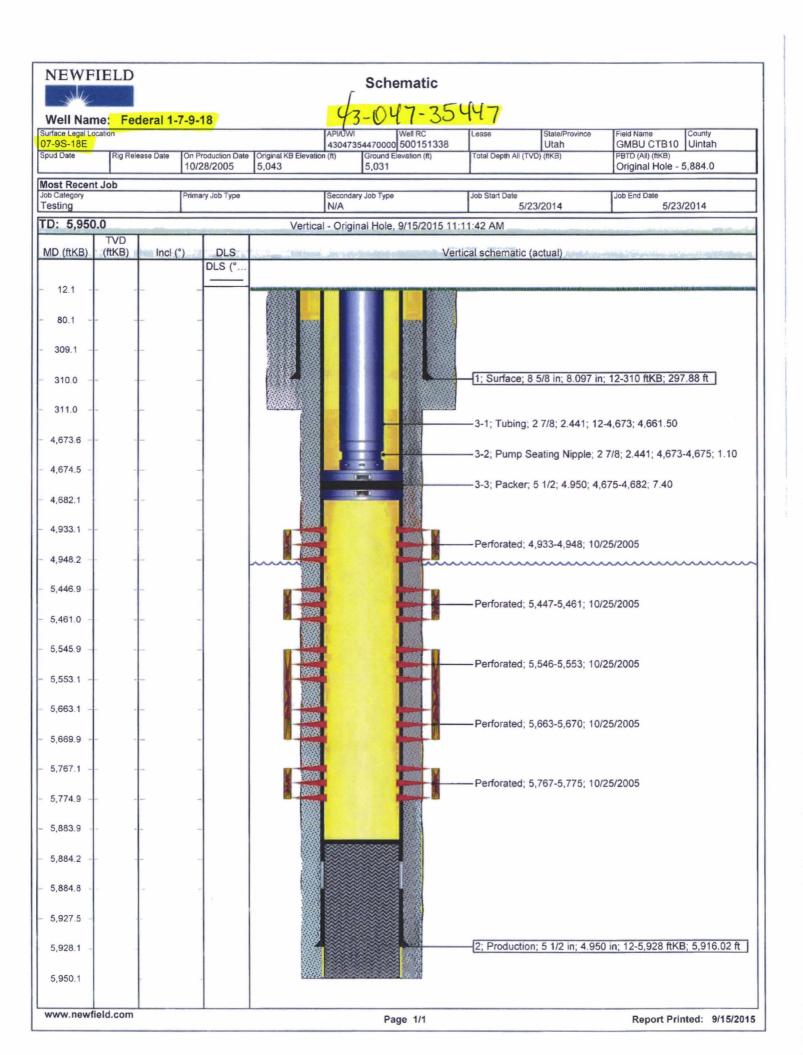
Does the annulus pressure build back up after the test? [] Yes [Y] No MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Oleman at IAttana			
Signature of Witness:	t)		
0.9.1-10.00.			

Sundry Number: 51627 API Well Number: 43047354470000







Newfield Wellbore Diagram Data Federal 1-7-9-18

				43047354470000		Lease			
County Uintah		State/Province Utah			Basin		Field Name GMBU CTB10		
Well Start Date					Final Rig Release Date		On Production Date		
9/9/2005 Original KB Elevation (ft) Ground	Elevation (ft)	Total Depth (ftKB)		Total Depth All (TVD) (ftKB)		10/28/2005 PBTD (All) (fiKB)			
5,043	5,031	5,950.0			Total Depth All (TVD) (TIKB)		Original Hole - 5,884.0		
Casing Strings					Assertion Committee Commit				
Csg Des		Run [Date	OD (in)	ID (in)	Wt/Len (lb/ft) 24.00	Grade	Set Depth (ftKB)	
Surface		9/9/2005		8 5/8 5 1/2	8.097 4.950	15.50		5.92	
Production		10/8/2005	1000000	5 1/2	4.950	15.50	J-55	5,92	
Cement	0/45/0005								
String: Surface, 310ftKB Dementing Company	9/15/2005		WHITE ST	To the market with the last	Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)	
yemening company					12.0	310.0			
Fluid Description 2% CaCL2 + 1/4#/sk Cello	Elako miyod				Fluid Type Lead	Amount (sacks) 160	Class	Estimated Top (ftKB)	
String: Production, 5,928		05			Leau	100		anamidu intidita.	
Cementing Company	1010/201	JO BURNING			Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)	
					80.0	5,950.0			
Fluid Description 10% gel + 3 % KCL, 3#'s	sk CSF + 2# 9	sk/kolseal +	1/4#'s/sk	Cello Flake	Fluid Type Lead	Amount (sacks) 350	Class PREMLITE II	Estimated Top (ftKB) 80	
Fluid Description					Fluid Type	Amount (sacks)	Class	Estimated Top (ftKB)	
2% Gel + 3% KCL, .5%EC	1,1/4# sk C.F.	2% gel. 3%	% SM mixe	d	Tail	425	50/50 POZ	3,000	
Tubing Strings Tubing Description					Run Date		Set Depth (ftKB)		
Tubing						6/12/2009		4,682	
Item Des	Jts	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)	
Tubing	147	2 7/8	2.441	6.50	J-55	4,661.50	12.0	4,673	
Pump Seating Nipple	1	2 7/8	2.441			1.10	4,673.5	4,674	
Packer	1	5 1/2	4.950			7.40	4,674.6	4,682	
Rod Strings Rod Description					Run Date		Set Depth (ftKB)		
10 (10 to 10 to 1							The state of the s		
Item Des	Jts	OD	(in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)	
Perforation Intervals							Ļ		
Stage# Zon	9	Top (f	tKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (°)	Nom Hole Dia (in)	Date	
4 B1, Original Hole	9		4,933	4,948	4			10/25/2005	
3 CP.5, Original H	ole		5,447	5,461	4			10/25/2005	
2 CP4 & CP2, Orig	ginal Hole		5,546	5,553	4			10/25/2005	
2 CP4 & CP2, Ori	ginal Hole		5,663	5,670	4		an divide	10/25/2005	
1 CP5, Original Ho	ole		5,767	5,775	4			10/25/2005	
Stimulations & Treatmen			1000	- 10 ¹ / ₂ 10 ¹ /2 10 ¹			(Virginian) Agent	SWITCH PROPERTY I	
Stage#	2,080	Frac Gradie	ent (psi/ft) 0.8	Max Rate (bbl/min) 25.3	Max PSI (psi) 2,070	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	Vol Recov (bbl)	
2	1,450		0.69	25.3	1,670				
3	1,700		0.75	25.3	1,690				
4	1,950		25.3	1,915					
Proppant	1,330		0.00	20.0	1,010		L		
Total F	Prop Vol Pumped				30				
Stage#	(lb)	Proppant 8	Sand 3043	6 lh	Total Add	d Amount	ilo-wix-o-y		
2									
3		Proppant Sand 39475 lb Proppant Sand 60897 lb							
4	Proppant Sand 108842 lb								
		1 Toppant	Janu 1000	72 IU					